

## Kim, Seong Hun

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**From:** noreply@salesforce.com on behalf of California Air <mscertfees@arb.ca.gov>  
**Sent:** Monday, April 13, 2026 11:34 AM  
**To:** Kim, Seong Hun  
**Subject:** [From: External] MS Fee Payment Confirmation for Invoice MSF251034  
**Attachments:** MSF251034 - signed.pdf

**CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Dear Seong Hun Kim

Attached is documentation for your MS Fee payment for Invoice Name MSF251034. Please include a copy of this invoice and email with each application that is listed when submitting your application to the applicable MS Fee program.

1. Payment ID – 25RA0371
2. Date of Payment – 4/10/2026
3. Payment Status - Paid



**MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY**

**CARB USE ONLY**

|                     |              |
|---------------------|--------------|
| <b>Invoice Name</b> | MSF251034    |
| <b>Invoice Date</b> | Apr 02, 2026 |

**COMPANY INFORMATION**

|                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>Company Name</b>             | Volkswagen Group of America, Inc. |
| <b>Address</b>                  | 3800 Hamlin Road                  |
| <b>City</b>                     | Auburn Hills                      |
| <b>State</b>                    | MI                                |
| <b>Zip</b>                      | 48326                             |
| <b>Country</b>                  | United States                     |
| <b>Contact Name</b>             | Seong Hun Kim                     |
| <b>Contact Telephone Number</b> | 2489314347                        |
| <b>Contact Email</b>            | sunny.kim@vw.com                  |
| <b>CARB Customer Number</b>     | CCAM000085                        |

**APPLICATION INFORMATION**

| Payment Row Number | Product Description or File Name | Model Year/Calendar Year | Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application) | Category Type                                                    | Fee Type           | Amount       |
|--------------------|----------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------|--------------|
| 1                  | Audi_Q5, A5                      | Model Year 2027          | VGAJ02.0A2H                                                                                                                                                                                                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00 |
| 2                  | Audi_Q3                          | Model Year 2027          | VVGAT02.0A3C                                                                                                                                                                                                           | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00 |
| 3                  | Audi_Q7, Q9                      | Model Year 2027          | VVGAT02.9A5E                                                                                                                                                                                                           | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00 |
| 4                  | Audi_SQ5, S5, A6                 | Model Year 2027          | VVGAJ03.0N7S                                                                                                                                                                                                           | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00 |
| 5                  | Audi_SQ7, SQ9                    | Model Year 2027          | VVGAT04.0N5D                                                                                                                                                                                                           | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00 |
| 6                  | Audi_A3                          | Model Year 2027          | VVGAV02.0A3N                                                                                                                                                                                                           | Light-duty vehicle test group and medium-duty vehicle test group | Partial Carry-Over | \$ 25,155.00 |
| 7                  | Audi_S3                          | Model Year 2027          | VVGAV02.0A7N                                                                                                                                                                                                           | Light-duty vehicle test group and medium-duty vehicle test group | Partial Carry-Over | \$ 25,155.00 |
| 8                  | Audi_RS3                         | Model Year 2027          | VVGAV02.5NAG                                                                                                                                                                                                           | Light-duty vehicle test group and medium-duty vehicle test group | Partial Carry-Over | \$ 25,155.00 |

**Total Due** \$ 327,010.00

I, Tony D'Ambrasi  
Tony D'Ambrasi (Apr 2, 2026 13:36:59 EDT)  
(Responsible Party Signature Here)

, attest that any information provided is true, accurate, and complete.

# VOLKSWAGEN

GROUP OF AMERICA

Ms. Robin U. Lang, Chief  
Emissions Certification and Compliance Division  
California Air Resources Board  
4001 Iowa Avenue  
Riverside, California 92507

Anthony D'Ambrosi Name  
Dir, OBD & Certification Title  
EEO - Certification Department  
(248) 754-4396 Phone  
Tony.DAmbrosi@vw.com E-Mail

July 1, 2026 Date

Subject: 2027 Model Year Partial Carryover Application Request

Dear Ms. Lang,

VOLKSWAGEN GROUP OF AMERICA, INC.  
3800 HAMLIN ROAD  
AUBURN HILLS, MI 48326

VWGoA is requesting the Air Resources Board approve the following Partial Carryover Application for VVG AJ02.0A2H / VVG AR0171ADF / VVG AR0171ADE based on Partial Carryover data from TVG AJ02.0A2H / TVG AR0171ADF / TVG AR0171ADE and Executive Order numbers A-413-0396. By signing this letter, VWGoA is certifying this model year's application package:

1. Includes no change of the emission standards/FELs, regulation requirements, emission characteristics of the engine, or test procedures requirements.

2. The 2027 application package differs from the 2026 application package only by: (please check applicable changes)

- ☒ Model year
- ☒ Test Group/Engine/Vehicle/Evaporative family name (typically the first character)
- ☐ Manufacturer contact information
- ☒ Projected sales data
- ☒ Model information (may only add models if the certification emission levels are not changed)
- ☒ Part numbers (durable to full useful life and no impact on certification emission levels)
- ☐ Equipment types (i.e. crane, dozer, generator, etc.)

3. All other information in the 2027 application package is identical to the 2026 application package (incorporates all approved running changes to date).

4. The application package is complete and named correctly using the appropriate Document Management System (DMS) file and workflow naming conventions and submitted using the correct workflow process.

If you have any questions regarding this request, please contact Greg Allen at (248) 754-4209 or by email at Gregory.Allen@vw.com.

Sincerely,

D'Ambrosi Anthony  
VWPKI  
5406C07D40F4331C  
Digitally signed by D'Ambrosi  
Anthony VWPKI  
5406C07D40F4331C  
Date: 2026.06.30 13:45:01 -04'00'

Anthony D'Ambrosi  
Volkswagen Group of America, Inc.  
Engineering and Environmental Office

Enclosure(s)

## Running Change / Field Fix Log

Model Year: 2026

Test Group: TVGAJ02.0A2H

Models: Q5 TFSI quattro, Q5 Sportback TFSI quattro, A5 quattro

Evaporative Families: TVGAR0171ADF, TVGAR0171ADE

| RC / FF Number           | Description of Change / Reason                                                   | Date       |
|--------------------------|----------------------------------------------------------------------------------|------------|
| RC_T2.0A2H_3.0N7S_030_26 | The ACM software with new part number will be available for production.          | 03/04/2026 |
| RC_T2.0A2H_3.0N7S_033_26 | Improved GWM software has been developed and will be available for production.   | 03/10/2026 |
| RC_TV2.0A2H_01_26        | The secondary air valve with a new part number will be available for production. | 03/24/2026 |

Prefix:

RC = Running Change

RF = Running Change / Field Fix

FF = Field Fix



Audi AG, a member of the Volkswagen Group

## Application for Emissions Certification

### 2027 Model Year

**Durability Group:** VVGAGPGNNA3H

**Evap. Family:** VVGAR0171ADF (Q5)

VVGAR0171ADE (A5)

**Test Group:** VVGAJ02.0A2H

**Certificate Number:** VVGAJ02.0A2H -XXX

**Durability Group Description:** Four Stroke, Otto Cycle, Gasoline Fueled,  
Direct Fuel Injection, Catalyst Code:  
JM1102, JM1110T, JM1105

**Test Group Description :** 2.0 liter turbocharged I4 longitude – LDT2, LDV  
DFI/AIR/TC/CAC/TWC(2)/GPF/WR-HO2S/HO2S

**Applicable Exhaust Standards:** 50 State Federal: Tier 4 Interim BIN30  
California: LEV IV SULEV25

**Applicable Evaporative Standards:** 50 State Federal: Tier 4-interim FEL: 375 mg (Q5)  
425 mg (A5)  
California: LEV IV FEL: 375 mg (Q5)  
425 mg (A5)

**Carlines Covered:** Q5 TFSI quattro, Q5 Sportback TFSI quattro, A5 quattro

#### Vehicles Tested:

| VID          | Config. | Test Type / #                   | Test Type / #               |
|--------------|---------|---------------------------------|-----------------------------|
| TA2H-Q5-531  | 0       | FTP / TVGA10092282              | HWY / TVGA10092270          |
|              |         | US06 / TVGA10092283             | 20° FTP / TVGA10092284      |
|              |         | SC03 / TVGA10092269             | 50° FTP / TVGA10092286      |
|              |         | Quick Drive Away / TVGA10092285 |                             |
| SA3H-Q5-787  | 0       | 2-Day / SVGA10089085            | ORVR / SVGA10089088         |
|              |         | 3-Day / SVGA10089087            | BETP / SVGA10089089         |
|              |         | Running Loss / SVGA10089086     |                             |
| SA7H-B10-793 | 0       | 2-Day / SVGA10089021            | ORVR / SVGA10089022         |
|              |         | 3-Day / SVGA10089024            | Running Loss / SVGA10089023 |
|              |         | BETP / SVGA10089038             |                             |

Issue Date: 7/02/2026

**Questions, Contact:**  
EEO Office, Auburn Hills, Michigan

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## 1. **Correspondence and Communication**

Please refer to the Common Section



## 2. Durability Group Description

| Durability Source Basics               |                        |
|----------------------------------------|------------------------|
| Durability Procedure                   | VW / Audi ADP          |
| Durability Group Name                  | VVGAGPGNNA3H           |
| Source of Durability Data              | SA3H-Q5-785            |
| Relation Factor<br>BAT VWADP / BAT SRC | 2.2                    |
| Engine Type                            | Piston                 |
| Combustion Method                      | Otto Cycle Four Stroke |
| Fuel Used                              | Gasoline               |
| Basic Fuel Metering System             | Direct Injection       |
| Displacement [l]                       | 2.0                    |

| Catalyst / After treatment device specifics |                             |                              |
|---------------------------------------------|-----------------------------|------------------------------|
|                                             | Durability Group Statistics | Durability Data Vehicle      |
| Catalyst Construction                       |                             | Monolith                     |
| Precious Metal Composition TWC              |                             | Platinum, Palladium, Rhodium |
| PTOX TWC                                    |                             | n.a.                         |
| NAC:1 SCRC: 2                               |                             | n.a.                         |
| Total Catalyst Volume [l]                   |                             | 3.7                          |
| Total Precious Metal Loading [g]            |                             | 10.8                         |
| Precious Metal Load Rate PM [g] / CV [l]    |                             | 2.9                          |
| Cat. Grouping Statistic                     | 5.4                         | 5.4                          |
| Durability Group Limit (25% or 0.2 g/l)     | 4.1                         | 4.1                          |
| Test Group Covered                          |                             | VVGAJ02.0A2H                 |

### 3. Evaporative / Refueling Family Description

|                                                |                                 | C/O – BETP<br>Q5 | Q5                           |
|------------------------------------------------|---------------------------------|------------------|------------------------------|
| Evaporative / Refueling Family Name            |                                 | SVGAR0171ADF     | VVGAR0171ADF                 |
| Vapor storage device                           | Canister                        | Yes              | Yes                          |
|                                                | Other                           | -                | -                            |
| Basic canister design                          | Working Capacity (g)            | 171              | 171                          |
|                                                | Bed Volume (cm <sup>3</sup> )   | 2620             | 2620                         |
|                                                | Number, config.                 | 1                | 1                            |
|                                                | Geometry                        | Other            | Other                        |
|                                                | Construction                    | 5-chamber        | 5-chamber                    |
|                                                | Bleeding trap                   | Yes              | Yes                          |
|                                                | Bleed trap Working Capacity (g) | 4-6              | 4-6                          |
|                                                | Material                        | plastic          | plastic                      |
|                                                |                                 |                  |                              |
|                                                |                                 |                  |                              |
| Fuel System                                    |                                 | DFI              | DFI                          |
| Type of refueling system                       | Integrated                      | Yes              | Yes                          |
|                                                | Non-integrated                  | -                | -                            |
|                                                | Other                           | -                | -                            |
| Fill pipe seal mechanism                       | Liquid seal                     | Yes              | Yes                          |
|                                                | Mechanical Seal                 | -                | -                            |
|                                                | Other                           | -                | -                            |
| Method of controlling vapor flow to the engine | Vacuum                          | Yes              | Yes                          |
|                                                | Purge valve                     | Yes              | Yes                          |
|                                                | Other                           | -                | -                            |
| Purge control system                           | Valve type                      | Duty Cycle       | Duty Cycle                   |
|                                                | Control                         | ECM              | ECM                          |
| Vapor hose material                            | 4 / multi-layer hose            | Yes              | Yes                          |
|                                                | Stainless Steel                 | -                | -                            |
|                                                | Alloy                           | -                | -                            |
| Fuel tank material                             | Metal                           | -                | -                            |
|                                                | Plastic                         | Yes              | Yes                          |
|                                                | Other                           | -                | -                            |
| Test groups combined with this Evap. family    |                                 |                  | VVGAJ02.0A2H<br>VVGAJ03.0N7S |

|                                                |                                 |              |              |
|------------------------------------------------|---------------------------------|--------------|--------------|
|                                                |                                 | C/O – BETP   | A5           |
| Evaporative / Refueling Family Name            |                                 | SVGAR0171ADE | VVGAR0171ADE |
| Vapor storage device                           | Canister                        | Yes          | Yes          |
|                                                | Other                           | -            | -            |
| Basic canister design                          | Working Capacity (g)            | 171          | 171          |
|                                                | Bed Volume (cm <sup>3</sup> )   | 2620         | 2620         |
|                                                | Number, config.                 | 1            | 1            |
|                                                | Geometry                        | Other        | Other        |
|                                                | Construction                    | 5-chamber    | 5-chamber    |
|                                                | Bleeding trap                   | Yes          | Yes          |
|                                                | Bleed trap Working Capacity (g) | 4-6          | 4-6          |
|                                                | Material                        | plastic      | plastic      |
|                                                |                                 |              |              |
|                                                |                                 |              |              |
| Fuel System                                    |                                 | DFI          | DFI          |
| Type of refueling system                       | Integrated                      | Yes          | Yes          |
|                                                | Non-integrated                  | -            | -            |
|                                                | Other                           | -            | -            |
| Fill pipe seal mechanism                       | Liquid seal                     | Yes          | Yes          |
|                                                | Mechanical Seal                 | -            | -            |
|                                                | Other                           | -            | -            |
| Method of controlling vapor flow to the engine | Vacuum                          | Yes          | Yes          |
|                                                | Purge valve                     | Yes          | Yes          |
|                                                | Other                           | -            | -            |
| Purge control system                           | Valve type                      | Duty Cycle   | Duty Cycle   |
|                                                | Control                         | ECM          | ECM          |
| Vapor hose material                            | 4 / multi-layer hose            | Yes          | Yes          |
|                                                | Stainless Steel                 | -            | -            |
|                                                | Alloy                           | -            | -            |
| Fuel tank material                             | Metal                           | -            | -            |
|                                                | Plastic                         | Yes          | Yes          |
|                                                | Other                           | -            | -            |
| Test groups combined with this Evap. family    |                                 |              | VVGAJ02.0A2H |

#### **4. Durability Procedure Description**

Please refer to the Common Section

## **5.0      Test Group Description**

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| Evap. Family:                         | VVGAR0171ADF (Q5)<br>VVGAR0171ADE (A5) |
| Test Group Name:                      | VVGAJ02.0A2H                           |
| Certificate Number:                   | VVGAJ02.0A2H-XXX,-XXX                  |
| Engine displacements covered:         | 2.0 Liter                              |
| Arrangement and number of cylinders:  | Inline 4                               |
| Vehicle class(es) covered:            | LDT2 / LDV                             |
| Federal Emissions Standards Class:    | Tier 4 Interim BIN30                   |
| California Emissions Standards Class: | LEVIV SULEV25                          |

## **5.1      Test Group Emission Standards**

Please refer to Certification Summary Information Report included in Section 7 for applicable emission standards.

## 6. Test Vehicle Description

Certificate Number: VVG AJ02.0A2H-XXX  
Models: Q5 TFSI quattro, Q5 Sportback TFSI quattro  
Test Group: VVG AJ02.0A2H  
Evaporative/Refueling Family: VVG AR0171ADF

| VID         | Config. | Vehicle Type | Tests Performed                                             |
|-------------|---------|--------------|-------------------------------------------------------------|
| TA2H-Q5-531 | 0       | EDV E10      | FTP, HWY, US06, SC03, Cold FTP, 50deg FTP, Quick-Drive Away |
|             | 0       | EDV E0       | FTP, HWY, US06, SC03, Cold FTP                              |
|             | 4       | FEDV         | FTP, HWY, US06, SC03, Cold FTP                              |
|             | 5       | FEDV         | FTP, HWY, US06, SC03, Cold FTP                              |
|             |         |              |                                                             |
| SA3H-Q5-787 | 0       | EVAP         | 2-Day Evap, 3-Day Evap, Running Loss, ORVR, BETP            |

Certificate Number: VVG AJ02.0A2H-XXX  
Models: A5 quattro  
Test Group: VVG AJ02.0A2H  
Evaporative/Refueling Family: VVG AR0171ADE

| VID          | Config. | Vehicle Type | Tests Performed                                  |
|--------------|---------|--------------|--------------------------------------------------|
| TA2H-B10-304 | 0       | FEDV         | FTP, HWY, US06, SC03, Cold FTP                   |
|              |         |              |                                                  |
| SA7H-B10-793 | 0       | EVAP         | 2-Day Evap, 3-Day Evap, Running Loss, ORVR, BETP |

## **7. Test Results**

Please refer to the Certification Summary Information Report.

## Certification Summary Information Report

|                                   |                                   |                                     |                        |
|-----------------------------------|-----------------------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Volkswagen Group of America, Inc. | <b>Manufacturer Code</b>            | VGA                    |
| <b>Test Group</b>                 | VVGAJ02.0A2H                      | <b>Evaporative/Refueling Family</b> | VVGAR0171ADE           |
| <b>Certificate Number</b>         | --                                | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | --                                | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | --                                | <b>Conditional Certificate</b>      | --                     |
| <b>CSI Revision #</b>             | --                                | <b>CSI Submission/Revision Date</b> | 07/14/2026 03:38:28 PM |
| <b>Model Year</b>                 | 2027                              |                                     |                        |

  
**Test Group Information**

|                          |                       |                                        |    |
|--------------------------|-----------------------|----------------------------------------|----|
| <b>CSI Type</b>          | Update for Correction | <b>Running Change Reference Number</b> | -- |
| <b>GHG Exempt Status</b> | Not Exempt            |                                        |    |

  
**Drive Sources and Fuel(s)**

**Drive Source #1:** Combustion Engine

| Fuel     | Basic Fuel Metering System           | Lean Burn Strategy Indicator |
|----------|--------------------------------------|------------------------------|
| Gasoline | Spark Ignition Direct fuel injection | No                           |

|                                                     |                        |                                                            |              |
|-----------------------------------------------------|------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | No                     |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                     | <b>Rechargeable Energy Storage System Indicator</b>        | --           |
| <b>Multiple Fuel Combustion</b>                     | --                     | <b>Off-board Charge Capable Indicator</b>                  | --           |
| <b>Fuel Cell Indicator</b>                          | No                     | <b>EPA Vehicle Class</b>                                   | LDV, LDT2    |
| <b>Federal Clean Fuel Vehicle</b>                   | No                     | <b>Federal Clean Fuel Vehicle Standard</b>                 | --           |
| <b>Federal Clean Fuel Vehicle ILEV</b>              | No                     | <b>California Partial Zero Emissions Vehicle Indicator</b> | --           |
| <b>Durability Group Name</b>                        | VVGAGPGNNA3H           | <b>Durability Group Equivalency Factor</b>                 | 2.2          |
| <b>Reduced Fee Test Group</b>                       | No                     | <b>Certification Region Code(s)</b>                        | FA, CA       |
| <b>Complies with HD GHG 2b/3 regulations?</b>       | No                     |                                                            |              |
| <b>Introduction into Commerce Date</b>              | 07/27/2026             | <b>CAP2000 Conditional Certificate?</b>                    | N/A          |
| <b>Independent Commercial Importer?</b>             | --                     | <b>Alternative Fuel Converter Certificate?</b>             | --           |
| <b>SFTP Federal Composite Compliance Identifier</b> | Tier 3                 | <b>SFTP Tier 2 Composite CO Option</b>                     | No           |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | No                     |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                   | <b>OBD Demonstration Vehicle Test Group</b>                | VVGAJ02.0V3T |
| <b>Test Group OBD Compliance Level</b>              | Full - no deficiencies | <b>Number of Test Group OBD Deficiencies</b>               | 0            |
| <b>OBD Deficiencies Comments</b>                    | --                     |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | --                     |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                     |                                                            |              |



## Certification Summary Information Report

|                                                                             |                                                                           |                                                           |                                     |                     |                                                                  |                     |                       |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------|---------------------|------------------------------------------------------------------|---------------------|-----------------------|
| <b>Test Group</b>                                                           | VVGAJ02.0A2H                                                              | <b>Evaporative/Refueling Family</b>                       | VVGAR0171ADE                        |                     |                                                                  |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |                                                                           |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | New                                                                       | <b>Submission/Correction Date</b>                         | 06/30/2026 11:37:29 AM              |                     |                                                                  |                     |                       |
| <b>Integrated ORVR?</b>                                                     | Yes                                                                       | <b>Fuel(s)</b>                                            | Gasoline                            |                     |                                                                  |                     |                       |
| <b>Multiple Fuel Storage</b>                                                | --                                                                        |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Bladder Fuel Tank?</b>                                                   | No                                                                        |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Fuel Tank Material</b>                                                   | Plastic                                                                   | <b>Fuel Tank Material Description</b>                     | HDPE                                |                     |                                                                  |                     |                       |
| <b>Fill Pipe Seal Type</b>                                                  | Liquid seal                                                               |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Air Intake System Vapor Storage Device?</b>                              | No                                                                        | <b>Air Intake System Vapor Storage Device Description</b> | --                                  |                     |                                                                  |                     |                       |
| <b>Fuel System Vapor Storage Canister?</b>                                  | Yes                                                                       | <b>Other Vapor Storage</b>                                | --                                  |                     |                                                                  |                     |                       |
| <b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b> | 171                                                                       | <b>Number of Primary Canisters</b>                        | 1                                   |                     |                                                                  |                     |                       |
| <b>Number of Bleed Canisters</b>                                            | 2                                                                         | <b>Bleed Canister Total Working Capacity (grams)</b>      | 6                                   |                     |                                                                  |                     |                       |
| <b>Mfr Evaporative/Refueling Family Comments</b>                            | Audi B10 LEV4 Evap FEL 425 BETP Bleeding Canister equipped (2 Honeycombs) |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Leak Family Details</b>                                                  |                                                                           |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Leak Family Indicator</b>                                                | Yes                                                                       |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Canister Bleed Test Indicator</b>                                        | Yes                                                                       | <b>Applicability of Evaporative Canister Bleed Test</b>   | 50 State                            |                     |                                                                  |                     |                       |
| <b>Evaporative Canister Bleed Test Comments</b>                             | --                                                                        |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>CARB Fuel Only (Rig) Test Indicator</b>                                  | No                                                                        | <b>Applicability of CARB Fuel Only (Rig) Test</b>         | --                                  |                     |                                                                  |                     |                       |
| <b>CARB Fuel Only (Rig) Test Comments</b>                                   | --                                                                        |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Leak Family Name</b>                                                     | <b>Applicability of Leak Family Requirements</b>                          | <b>Leak Family Standard (inches)</b>                      | <b>Leak Family Description</b>      |                     |                                                                  |                     |                       |
| VVGAR0171ADE-001                                                            | 50 State                                                                  | 0.02                                                      | --                                  |                     |                                                                  |                     |                       |
| <b>Models Covered by this Certificate</b>                                   |                                                                           |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Carline Manufacturer</b>                                                 | <b>Division</b>                                                           | <b>Carline</b>                                            | <b>Certification Region Code(s)</b> | <b>Drive System</b> | <b>Trans - Type</b>                                              | <b>- # of Gears</b> | <b>Trans - Lockup</b> |
| Volkswagen Group of America, Inc.                                           | 2 - Audi                                                                  | 55 - A5 quattro                                           | California + CAA Section 177 states | All Wheel Drive     | Automated Manual-Selectable (e.g. Automated Manual with paddles) | 7                   | No                    |
| Volkswagen Group of America, Inc.                                           | 2 - Audi                                                                  | 55 - A5 quattro                                           | Federal                             | All Wheel Drive     | Automated Manual-Selectable (e.g. Automated Manual with paddles) | 7                   | No                    |
| <b>Engine Description</b>                                                   |                                                                           |                                                           |                                     |                     |                                                                  |                     |                       |
| <b>Hybrid Type</b>                                                          | --                                                                        | <b>Hybrid Description</b>                                 | --                                  |                     |                                                                  |                     |                       |
| <b>Engine Type</b>                                                          | 4-Stroke Spark Ignition                                                   | <b>Mfr Engine Description</b>                             | --                                  |                     |                                                                  |                     |                       |
| <b>Engine Block Arrangement</b>                                             | Inline                                                                    | <b>Mfr Engine Block Arrangement Description</b>           | --                                  |                     |                                                                  |                     |                       |
| <b>Camless Valvetrain Indicator</b>                                         | No                                                                        | <b>Oil Viscosity/Classification</b>                       | 0W20 VW50800                        |                     |                                                                  |                     |                       |
| <b>Number of Cylinders/Rotors</b>                                           | 4                                                                         | <b>Mechanically Variable Compression Ratio Indicator</b>  | N                                   |                     |                                                                  |                     |                       |

## Certification Summary Information Report

|                                                  |                               |                                                         |                           |
|--------------------------------------------------|-------------------------------|---------------------------------------------------------|---------------------------|
| <b>Test Group</b>                                | VVG AJ02.0A2H                 | <b>Evaporative/Refueling Family</b>                     | VVGAR0171ADE              |
| <b>After Treatment Device(s) (ATD)</b>           |                               |                                                         |                           |
| <b>ATD Number</b>                                | <b>ATD Type</b>               | <b>ATD Precious Metal</b>                               | <b>Substrate Material</b> |
| 1                                                | Three-way catalyst            | Palladium + Rhodium                                     | Ceramic                   |
| 2                                                | Three-way catalyst            | Platinum + Palladium + Rhodium                          | Ceramic                   |
| 3                                                | Other                         | Gasoline Particulate Filter                             | Ceramic                   |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Direct Ozone Reduction (DOR) Device</b>       |                               |                                                         |                           |
| Not Equipped                                     |                               |                                                         |                           |
| <b>Mfr Emission Control Device Comments</b>      |                               |                                                         |                           |
| --                                               |                               |                                                         |                           |
| <b>Engine Configuration Number 1</b>             |                               |                                                         |                           |
| <b>Engine Displacement (liters)</b>              | 2.0                           | <b>Engine Rated Horsepower</b>                          | 268                       |
| <b>Number of Inlet Valves Per Cylinder</b>       | 2                             | <b>Number of Exhaust Valves Per Cylinder</b>            | 2                         |
| <b>Air Aspiration Method</b>                     | Turbocharged                  | <b>Number of Air Aspiration Devices</b>                 | 1                         |
| <b>Air Aspiration Device Configuration</b>       | Single                        | <b>Charge Air Cooler Type</b>                           | Liquid                    |
| <b>Air Aspiration Drive Method(s)</b>            | Mechanical                    |                                                         |                           |
| <b>Cylinder Deactivation</b>                     | No                            |                                                         |                           |
| <b>Cylinder Deactivation Description</b>         | --                            |                                                         |                           |
| <b>Variable Valve Timing</b>                     | Yes                           |                                                         |                           |
| <b>Variable Valve Timing System Description</b>  | Electronic / Hydraulic        |                                                         |                           |
| <b>Variable Valve Lift?</b>                      | Yes                           |                                                         |                           |
| <b>Variable Valve Lift System Description</b>    | Audi Valve Lift System        |                                                         |                           |
| <b>Number of Knock Sensors</b>                   | 1                             | <b>Number of Air/Fuel Sensors</b>                       | 2                         |
| <b>Air/Fuel Sensor # 1 Type</b>                  | Heated oxygen                 | <b>Air/Fuel Sensor # 1 Description</b>                  | --                        |
| <b>Air/Fuel Sensor # 2 Type</b>                  | Heated oxygen                 | <b>Air/Fuel Sensor # 2 Description</b>                  | --                        |
| <b>Mfr Air/Fuel Sensor Comments</b>              | --                            |                                                         |                           |
| <b>Exhaust Gas Recirculation</b>                 | Yes                           | <b>Cooled Exhaust Gas Recirculation</b>                 | No                        |
| <b>EGR Type</b>                                  | Variable Valve Timing Control | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --                        |
| <b>Closed Loop Air Injection System</b>          | No                            |                                                         |                           |
| <b>Air Injection Type</b>                        | Secondary Air Injection       | <b>Air Injection Type if 'Other'</b>                    | --                        |
| <b>Mfr Engine Configuration Comments</b>         | Applies to both DXCA and DVWA |                                                         |                           |

## Certification Summary Information Report

|                                                 |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
|-------------------------------------------------|-------------------------------|---------------------------------------------------------|--------------|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | VVGAJ02.0A2H                  | <b>Evaporative/Refueling Family</b>                     | VVGAR0171ADE |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 2</b>            |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 2.0                           | <b>Engine Rated Horsepower</b>                          | 268          |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Inlet Valves Per Cylinder</b>      | 2                             | <b>Number of Exhaust Valves Per Cylinder</b>            | 2            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Method</b>                    | Turbocharged                  | <b>Number of Air Aspiration Devices</b>                 | 1            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Device Configuration</b>      | Single                        | <b>Charge Air Cooler Type</b>                           | Liquid       |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Drive Method(s)</b>           | Mechanical                    |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation</b>                    | No                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation Description</b>        | --                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing</b>                    | Yes                           |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing System Description</b> | Electronic / Hydraulic        |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | Yes                           |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | Audi Valve Lift System        |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 1                             | <b>Number of Air/Fuel Sensors</b>                       | 2            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 1 Type</b>                 | Heated oxygen                 | <b>Air/Fuel Sensor # 1 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 2 Type</b>                 | Heated oxygen                 | <b>Air/Fuel Sensor # 2 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Air/Fuel Sensor Comments</b>             | --                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Exhaust Gas Recirculation</b>                | Yes                           | <b>Cooled Exhaust Gas Recirculation</b>                 | No           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | Variable Valve Timing Control | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Closed Loop Air Injection System</b>         | No                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Injection Type</b>                       | Secondary Air Injection       | <b>Air Injection Type if 'Other'</b>                    | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Engine Configuration Comments</b>        | Applies to both DXCA and DVWA |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Official Test Numbers</b>                    |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group</b>                               | <b>Fuel</b>                   | <b>FTP</b>                                              | <b>US06</b>  | <b>SC03</b>  | <b>Cold CO</b> | <b>Highway</b> | <b>EPA City Litmus Value</b> | <b>EPA City Litmus Threshold</b> | <b>EPA Highway Litmus Value</b> | <b>EPA Highway Litmus Threshold</b> | <b>CREE Weighting Factor</b> |
| Gasoline                                        | TVGA10092282                  | TVGA10092283                                            | TVGA10092269 | TVGA10092284 | TVGA10092270   | 18.0           | 16.8                         | 25.4                             | 23.4                            | --                                  |                              |
| <b>SFTP LEV-III Official Test Numbers</b>       |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group Fuel</b>                          | <b>FTP</b>                    | <b>US06</b>                                             | <b>SC03</b>  |              |                |                |                              |                                  |                                 |                                     |                              |
| Gasoline                                        | TVGA10092282                  | TVGA10092283                                            | TVGA10092269 |              |                |                |                              |                                  |                                 |                                     |                              |

## Certification Summary Information Report

| <b>Test Group</b>                            | VVGAJ02.0A2H                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | VVGAR0171ADE    |      |   |                   |          |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|------|---|-------------------|----------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle ID / Configuration</b>            | SA7H-B10-793 / 0                                                                                                                                                        | <b>Manufacturer Vehicle Configuration Number</b>      | 0               |      |   |                   |          |  |  |
| <b>Original Test Group Name</b>              | SVGAV02.0A7H                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | SVGAR0171ADE    |      |   |                   |          |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2025                                                                                                                                                                    |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Represented Test Vehicle Make</b>         | Audi                                                                                                                                                                    | <b>Represented Test Vehicle Model</b>                 | A5 quattro      |      |   |                   |          |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --              |      |   |                   |          |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table> | Drive Source and Fuel#                                | Drive Source    | Fuel | 1 | Combustion Engine | Gasoline |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                 |      |   |                   |          |  |  |
| 1                                            | Combustion Engine                                                                                                                                                       | Gasoline                                              |                 |      |   |                   |          |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --              |      |   |                   |          |  |  |
| <b>Fuel Cell Indicator</b>                   | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | --              |      |   |                   |          |  |  |
| <b>Rechargeable Energy Storage System</b>    | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System, if 'Other'</b> | --              |      |   |                   |          |  |  |
| <b>Off-board charge Capable Indicator</b>    | --                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction -- Initial</b>        | 0                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1.0062          |      |   |                   |          |  |  |
| <b>Odometer Correction Sign</b>              | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction Units</b>             | Kilometers                                                                                                                                                              |                                                       |                 |      |   |                   |          |  |  |
| <b>Engine Code</b>                           | DXBA                                                                                                                                                                    | <b>Rated Horsepower</b>                               | 268             |      |   |                   |          |  |  |
| <b>Displacement (liters)</b>                 | 1.984                                                                                                                                                                   |                                                       |                 |      |   |                   |          |  |  |
| <b>Air Aspiration Method</b>                 | Turbocharged                                                                                                                                                            | <b>Air Aspiration Method, if 'Other'</b>              |                 |      |   |                   |          |  |  |
| <b>Number of Air Aspiration Devices</b>      | 1                                                                                                                                                                       | <b>Air Aspiration Device Configuration</b>            | Single          |      |   |                   |          |  |  |
| <b>Charge Air Cooler Type</b>                | Air                                                                                                                                                                     | <b>Drive Mode While Testing</b>                       | All Wheel Drive |      |   |                   |          |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)      |      |   |                   |          |  |  |
| <b>Curb Weight (lbs)</b>                     | 4277                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 4500            |      |   |                   |          |  |  |
| <b>GVWR (lbs)</b>                            | 5269                                                                                                                                                                    | <b>N/V Ratio</b>                                      | 24.4            |      |   |                   |          |  |  |
| <b>Axle Ratio</b>                            | 4.41                                                                                                                                                                    |                                                       |                 |      |   |                   |          |  |  |
| <b>Transmission Type</b>                     | Automated Manual- Selectable (e.g. Automated Manual with paddles)                                                                                                       | <b># of Transmission Gears</b>                        | 7               |      |   |                   |          |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No              |      |   |                   |          |  |  |

## Certification Summary Information Report

|                   |               |                                     |              |
|-------------------|---------------|-------------------------------------|--------------|
| <b>Test Group</b> | VVG AJ02.0A2H | <b>Evaporative/Refueling Family</b> | VVGAR0171ADE |
|-------------------|---------------|-------------------------------------|--------------|

**Dynamometer Coefficients:**

| Coefficient Category | Target Coefficients |             |                | Set Coefficients |             |                | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|-------------------------------------------------------------------------------|
|                      | A (lbf)             | B (lbf/mph) | C (lbf/mph**2) | A (lbf)          | B (lbf/mph) | C (lbf/mph**2) |                                                                               |
| City/Highway/Evap    | 42.56               | 0.1627      | 0.02048        | 2.88             | 0.2537      | 0.01774        | 13.6                                                                          |
| Cold CO              | 46.81               | 0.179       | 0.02253        | -2.48            | 0.0042      | 0.02121        | N/A                                                                           |
| US06                 | 42.56               | 0.1627      | 0.02048        | 2.88             | 0.2537      | 0.01774        | N/A                                                                           |

|                                           |                               |
|-------------------------------------------|-------------------------------|
| <b>Emission Control Device Comments</b>   | DFI/TC/CAC/TWC/WR-HO2S/HO2S   |
| <b>Manufacturer Test Vehicle Comments</b> | MY25 Audi A5 quattro EVAP EDV |

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>SVGA10089021</b>                        | <b>Test Procedure</b>                 | <b>23 - 2-day evap</b>                             |
| <b>Exhaust Test # for this Evap Test</b>       | SVGA10089012                               | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 11/08/2024                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                     | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                         |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3356                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                        | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                         |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | --                                         | <b>Road Speed Fan Usage</b>           | --                                                 |

**Test Results**

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|-----------------------------------------------------------|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.285                 | --                                    |

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| <b>Manufacturer Test Comments</b> | MY25 Audi A5 quattro Evap EDV E10_2DD |
|-----------------------------------|---------------------------------------|

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.2850         | 0.0000 | 0.285               | 0.425    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.2850         | 0.000  | 0.285               | 0.425    | Pass      |

|                                         |                                            |                                |                                                    |
|-----------------------------------------|--------------------------------------------|--------------------------------|----------------------------------------------------|
| Test Group                              | VVGAJ02.0A2H                               | Evaporative/Refueling Family   | VVGAR0171ADE                                       |
| Test #                                  | SVGA10089024                               | Test Procedure                 | 34 - Federal fuel 3-day evap                       |
| Exhaust Test # for this Evap Test       | SVGA10089014                               | Test Fuel Type                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| Test Date                               | 12/06/2024                                 | Fuel                           | Gasoline                                           |
| Fuel Batch ID                           | IG0045                                     | Fuel Calibration Number        | 1                                                  |
| Vehicle Class                           | N/A                                        | DF Type                        | Mfr. Determined                                    |
| Verify Test Lab ID                      | AUDI AG Ingolstadt                         |                                |                                                    |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) |                                |                                                    |
| Test Start Odometer Reading             | 3465                                       | Odometer Units                 | M                                                  |
| 4WD Test Dyno                           | Yes                                        | Diesel Adjustment Factor Usage | --                                                 |
| State of Charge Delta                   | --                                         |                                |                                                    |
| Drive Cycle Speed Tolerance Criteria    | --                                         | Road Speed Fan Usage           | --                                                 |

Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|-----------------------------------------------------------|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.313                 | --                                    |

Manufacturer Test CommentsMY25 Audi A5 quattro Evap EDV E10\_3DD

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.3130         | 0.0000 | 0.313               | 0.425    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.3130         | 0.000  | 0.313               | 0.425    | Pass      |

Certification Summary Information Report

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                   |                                        |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|------------------|-----------------------|---------------------------------------|-----------------------------------------------------------|-----------|----------------------|-------------|----------------|---------------|----------------|--------|---------------------|----------|-----------|-----|---------------|---------------------|----------------|-------|-------|------|------|------|----|---------------|----------------------------------------|----------------|-------|-------|------|------|------|
| Test Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VVGAJ02.0A2H                                                      | Evaporative/Refueling Family           | VVGAR0171ADE                                       |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Test #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SVGA10089022                                                      | Test Procedure                         | 24 - Federal fuel refueling test (ORVR)            |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Exhaust Test # for this Evap Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SVGA10089013                                                      | Test Fuel Type                         | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Test Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11/12/2024                                                        | Fuel                                   | Gasoline                                           |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Fuel Batch ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IG0045                                                            | Fuel Calibration Number                | 1                                                  |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Vehicle Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N/A                                                               | DF Type                                | Mfr. Determined                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Verify Test Lab ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AUDI AG Ingolstadt                                                |                                        |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| E10 Evaporative Test Measurement Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                        |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Test Start Odometer Reading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3392                                                              | Odometer Units                         | M                                                  |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| 4WD Test Dyno                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes                                                               | Diesel Adjustment Factor Usage         | --                                                 |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| State of Charge Delta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | --                                                                |                                        |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Drive Cycle Speed Tolerance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                                                | Road Speed Fan Usage                   | --                                                 |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                   |                                        |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| <table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.017</td><td>--</td></tr></table>                                                                                                                                                                                                                                                                                                                                               |                                                                   |                                        |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.017     | --                   |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value  |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.017                                                             | --                                     |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Manufacturer Test Comments MY25 Audi A5 quattro Evap EDV E10_ORVR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                   |                                        |                                                    |                  |                       |                                       |                                                           |           |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| <table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.017</td><td>0.000</td><td>0.02</td><td>0.20</td><td>Pass</td></tr><tr><td>CA</td><td>150,000 miles</td><td>California LEV-IV Zero Evap (Option 2)</td><td>HC-TOTAL-EQUIV</td><td>0.017</td><td>0.000</td><td>0.02</td><td>0.20</td><td>Pass</td></tr></table> |                                                                   |                                        |                                                    |                  |                       |                                       |                                                           |           | Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail | Fed | 150,000 miles | Federal Tier 3 Evap | HC-TOTAL-EQUIV | 0.017 | 0.000 | 0.02 | 0.20 | Pass | CA | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.017 | 0.000 | 0.02 | 0.20 | Pass |
| Certification Region                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Useful Life                                                       | Standard Level                         | Emission Name                                      | Rounded Result   | Add DF                | Certification Level                   | Standard                                                  | Pass/Fail |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| Fed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 150,000 miles                                                     | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV                                     | 0.017            | 0.000                 | 0.02                                  | 0.20                                                      | Pass      |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |
| CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 150,000 miles                                                     | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV                                     | 0.017            | 0.000                 | 0.02                                  | 0.20                                                      | Pass      |                      |             |                |               |                |        |                     |          |           |     |               |                     |                |       |       |      |      |      |    |               |                                        |                |       |       |      |      |      |

Certification Summary Information Report

|                                         |                                            |                                |                                                    |
|-----------------------------------------|--------------------------------------------|--------------------------------|----------------------------------------------------|
| Test Group                              | VVGAJ02.0A2H                               | Evaporative/Refueling Family   | VVGAR0171ADE                                       |
| Test #                                  | SVGA10089023                               | Test Procedure                 | 32 - Federal Fuel Running Loss                     |
| Exhaust Test # for this Evap Test       | SVGA10089014                               | Test Fuel Type                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| Test Date                               | 12/06/2024                                 | Fuel                           | Gasoline                                           |
| Fuel Batch ID                           | IG0045                                     | Fuel Calibration Number        | 1                                                  |
| Vehicle Class                           | N/A                                        | DF Type                        | Mfr. Determined                                    |
| Verify Test Lab ID                      | AUDI AG Ingolstadt                         |                                |                                                    |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) |                                |                                                    |
| Test Start Odometer Reading             | 3448                                       | Odometer Units                 | M                                                  |
| 4WD Test Dyno                           | Yes                                        | Diesel Adjustment Factor Usage | --                                                 |
| State of Charge Delta                   | --                                         |                                |                                                    |
| Drive Cycle Speed Tolerance Criteria    | --                                         | Road Speed Fan Usage           | --                                                 |

Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|-----------------------------------------------------------|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0                     | --                                    |

Manufacturer Test Comments MY25 Audi A5 quattro Evap EDV E10\_RL

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.000          | 0.000  | 0.00                | 0.05     | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.000          | 0.000  | 0.00                | 0.01     | Pass      |



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## Certification Summary Information Report

| <b>Test Group</b>                            | VVGAJ02.0A2H                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | VVGAR0171ADE    |      |   |                   |          |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|------|---|-------------------|----------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle ID / Configuration</b>            | TA2H-Q5-531 / 0                                                                                                                                                         | <b>Manufacturer Vehicle Configuration Number</b>      | 0               |      |   |                   |          |  |  |
| <b>Original Test Group Name</b>              | TVGAJ02.0A2H                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | TVGAR0171ADF    |      |   |                   |          |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2026                                                                                                                                                                    |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Represented Test Vehicle Make</b>         | Audi                                                                                                                                                                    | <b>Represented Test Vehicle Model</b>                 | Q5 TFSI quattro |      |   |                   |          |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --              |      |   |                   |          |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table> | Drive Source and Fuel#                                | Drive Source    | Fuel | 1 | Combustion Engine | Gasoline |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                 |      |   |                   |          |  |  |
| 1                                            | Combustion Engine                                                                                                                                                       | Gasoline                                              |                 |      |   |                   |          |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --              |      |   |                   |          |  |  |
| <b>Fuel Cell Indicator</b>                   | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | --              |      |   |                   |          |  |  |
| <b>Rechargeable Energy Storage System</b>    | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System, if 'Other'</b> | --              |      |   |                   |          |  |  |
| <b>Off-board charge Capable Indicator</b>    | --                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction -- Initial</b>        | 0                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1.0053          |      |   |                   |          |  |  |
| <b>Odometer Correction Sign</b>              | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                 |      |   |                   |          |  |  |
| <b>Engine Code</b>                           | DXCA                                                                                                                                                                    | <b>Rated Horsepower</b>                               | 268             |      |   |                   |          |  |  |
| <b>Displacement (liters)</b>                 | 2                                                                                                                                                                       |                                                       |                 |      |   |                   |          |  |  |
| <b>Air Aspiration Method</b>                 | Turbocharged                                                                                                                                                            | <b>Air Aspiration Method, if 'Other'</b>              |                 |      |   |                   |          |  |  |
| <b>Number of Air Aspiration Devices</b>      | 1                                                                                                                                                                       | <b>Air Aspiration Device Configuration</b>            | Single          |      |   |                   |          |  |  |
| <b>Charge Air Cooler Type</b>                | Liquid                                                                                                                                                                  | <b>Drive Mode While Testing</b>                       | All Wheel Drive |      |   |                   |          |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)      |      |   |                   |          |  |  |
| <b>Curb Weight (lbs)</b>                     | 4486                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 4750            |      |   |                   |          |  |  |
| <b>GVWR (lbs)</b>                            | 5523                                                                                                                                                                    | <b>N/V Ratio</b>                                      | 26.4            |      |   |                   |          |  |  |
| <b>Axle Ratio</b>                            | 5.3                                                                                                                                                                     |                                                       |                 |      |   |                   |          |  |  |
| <b>Transmission Type</b>                     | Automated Manual- Selectable (e.g. Automated Manual with paddles)                                                                                                       | <b># of Transmission Gears</b>                        | 7               |      |   |                   |          |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No              |      |   |                   |          |  |  |

Certification Summary Information Report

|                                    |         |              |                |                  |                              |                |                                                                                  |  |
|------------------------------------|---------|--------------|----------------|------------------|------------------------------|----------------|----------------------------------------------------------------------------------|--|
| Test Group                         |         | VVGAJ02.0A2H |                |                  | Evaporative/Refueling Family |                | VVGAR0171ADE                                                                     |  |
| Dynamometer Coefficients:          |         |              |                |                  |                              |                |                                                                                  |  |
| Target Coefficients                |         |              |                | Set Coefficients |                              |                | EPA Calculated Total Road Load Horse Power for<br>City/Highway/Evap Coefficients |  |
| Coefficient<br>Category            | A (lbf) | B (lbf/mph)  | C (lbf/mph**2) | A (lbf)          | B (lbf/mph)                  | C (lbf/mph**2) |                                                                                  |  |
| City/Highway/Evap                  | 49.2    | -0.1428      | 0.02901        | -1.58            | 0.099                        | 0.02515        | 15.3                                                                             |  |
| Cold CO                            | 54.12   | -0.1571      | 0.03191        | -5.43            | -0.2059                      | 0.02927        | N/A                                                                              |  |
| US06                               | 49.2    | -0.1428      | 0.02901        | -1.58            | 0.099                        | 0.02515        | N/A                                                                              |  |
| Emission Control Device Comments   |         | --           |                |                  |                              |                |                                                                                  |  |
| Manufacturer Test Vehicle Comments |         | E10 & E0     |                |                  |                              |                |                                                                                  |  |

## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADE                                        |
|------------------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092282</b>                       | <b>Test Procedure</b>                 | <b>21 - Federal fuel 2-day exhaust (w/can load)</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 07/15/2025                                | <b>Fuel</b>                           | Gasoline                                            |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                   |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 3150                                      | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                  |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                     |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                 |
| <b>Test Results</b>                            |                                           |                                       |                                                     |

## Certification Summary Information Report

| Test Group                 | VVG AJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Evaporative/Refueling Family                                                                                                                                                                      | VVG AR0171ADE                                            |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|--------|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|---|----|----------------------------------------------|---|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|---|----|-------------------------|-----------|----|----------------------|-----------|----|----------------------------------------------------|----------|----|--------------------------------------------|-----------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|-----------|----|---------------------|----------|----|---------------------------------|-----------|----|----------------------------------|--------|----|-------------------------|-----------|----|------------------------------|-----------|----|--|--|
|                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>392.1391964</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.3269</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>22.1822887</td><td>22.1822887</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0061</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0234</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>428.8325615</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0073</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>20.3145444</td><td>20.3145444</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>354.3101173</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0238</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>24.5851649</td><td>24.5851649</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0013</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0016218</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0780552</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.479132</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.9847868</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.340643</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>21.7</td><td>21.7</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0066988</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.000963</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0044009</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0044</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0002868</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0059093</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                  | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 392.1391964                      | --          | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.3269 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 22.1822887 | 22.1822887 | CH4 BAG 1 (Bag 1 Methane) | 0.0061 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0234 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 428.8325615 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.0073 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 20.3145444 | 20.3145444 | CH4 BAG 2 (Bag 2 Methane) | 0 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 354.3101173 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.0238 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 24.5851649 | 24.5851649 | CH4 BAG 3 (Bag 3 Methane) | 0.0013 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0 | -- | METHANE (CH4 - Methane) | 0.0016218 | -- | CO (Carbon Monoxide) | 0.0780552 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.479132 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.9847868 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 2.340643 | -- | MFR FE (Manufacturer Fuel Economy) | 21.7 | 21.7 | NOX (Nitrogen Oxide) | 0.0066988 | -- | N2O (Nitrous Oxide) | 0.000963 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0044009 | -- | NMOG (Non-methane organic gases) | 0.0044 | -- | PM (Particulate Matter) | 0.0002868 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0059093 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 392.1391964                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.3269                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22.1822887                                                                                                                                                                                        | 22.1822887                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0061                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0234                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 428.8325615                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0073                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20.3145444                                                                                                                                                                                        | 20.3145444                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 354.3101173                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0238                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.5851649                                                                                                                                                                                        | 24.5851649                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0013                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0016218                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0780552                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.479132                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.9847868                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.340643                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 21.7                                                                                                                                                                                              | 21.7                                                     |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0066988                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000963                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0044009                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0044                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0002868                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0059093                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>401</td><td>401</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 401         | 401                              |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                             | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 401                                                                                                                                                                                               | 401                                                      |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>400.7540148</td><td>--</td></tr></table>                      | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 400.7540148 | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Test Result Name           | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Verify Calculated CO2                                                                                                                                                                             |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Carbon dioxide             | 400.7540148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                                                                                                                                |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Manufacturer Test Comments | Lab Comments: kein Kommentar!; VeCeD: FTP Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                   |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |

## Certification Summary Information Report

| Test Group           |               | VVG AJ02.0A2H             |               |                | Evaporative/Refueling Family |                  |                          |        |         | VVG AR0171ADE       |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | CREE          | 401            | --                           | --               | --                       | 0.3900 | --      | 401                 | --       | --        |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | METHANE       | 0.0016         | --                           | --               | --                       | 0.0014 | --      | 0.003               | 0.030    | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | N2O           | 0.0010         | --                           | --               | --                       | 0.0005 | --      | 0.002               | 0.010    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO            | 0.08           | --                           | --               | --                       | 0.3000 | --      | 0.4                 | 1.0      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO-COMP       | 0.39           | --                           | --               | --                       | --     | --      | 0.4                 | 4.2      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0044         | --                           | 1.099            | --                       | 0.0044 | --      | 0.009               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0111         | --                           | --               | --                       | --     | --      | 0.018               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX-COMP | 0.0162         | --                           | --               | --                       | --     | --      | 0.016               | 0.040    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0067         | --                           | --               | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | PM            | 0.0003         | --                           | --               | --                       | 0.0001 | --      | 0.000               | 0.003    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | CO            | 0.08           | --                           | --               | --                       | 0.3000 | --      | 0.4                 | 1.0      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0044         | --                           | 1.099            | --                       | 0.0044 | --      | 0.009               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0111         | --                           | --               | --                       | --     | --      | 0.018               | 0.025    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0067         | --                           | --               | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | PM            | 0.0003         | --                           | --               | --                       | 0.0001 | --      | 0.000               | 0.001    | Pass      |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADE                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092284</b>                       | <b>Test Procedure</b>                 | <b>11 - Cold CO</b>                                |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/25/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3311                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |
| <b>Test Results</b>                            |                                           |                                       |                                                    |

## Certification Summary Information Report

| Test Group                 | VVGAJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Evaporative/Refueling Family                                                                                                                                                                     | VVGAR0171ADE                                             |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|--------|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|---|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|---|----|-------------------------|-----------|----|----------------------|-----------|----|----------------------------------------------------|-----------|----|--------------------------------------------|------------|----|-------------------------------------------------|-----------|----|------------------------------------|------|------|----------------------|---------|----|---------------------|-----------|----|---------------------------------|-----------|----|----------------------------------|--------|----|------------------------------|-----------|----|--|--|
|                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>465.968818</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>1.0368</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>18.6057199</td><td>18.6057199</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0249</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.2031</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>464.3831314</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0046</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>18.7595856</td><td>18.7595856</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0001</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>381.9998464</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0269</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>22.8029339</td><td>22.8029339</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0016</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0056588</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.2247515</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.7689559</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.0701842</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.9774986</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>19.7</td><td>19.7</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.01266</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0012204</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0382272</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0382</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0435613</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                 | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 465.968818                       | --          | CO BAG 1 (Bag 1 Carbon Monoxide) | 1.0368 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 18.6057199 | 18.6057199 | CH4 BAG 1 (Bag 1 Methane) | 0.0249 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.2031 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 464.3831314 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.0046 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 18.7595856 | 18.7595856 | CH4 BAG 2 (Bag 2 Methane) | 0.0001 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 381.9998464 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.0269 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 22.8029339 | 22.8029339 | CH4 BAG 3 (Bag 3 Methane) | 0.0016 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0 | -- | METHANE (CH4 - Methane) | 0.0056588 | -- | CO (Carbon Monoxide) | 0.2247515 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.7689559 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.0701842 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.9774986 | -- | MFR FE (Manufacturer Fuel Economy) | 19.7 | 19.7 | NOX (Nitrogen Oxide) | 0.01266 | -- | N2O (Nitrous Oxide) | 0.0012204 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0382272 | -- | NMOG (Non-methane organic gases) | 0.0382 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0435613 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 465.968818                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.0368                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18.6057199                                                                                                                                                                                       | 18.6057199                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0249                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.2031                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 464.3831314                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0046                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18.7595856                                                                                                                                                                                       | 18.7595856                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0001                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 381.9998464                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0269                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22.8029339                                                                                                                                                                                       | 22.8029339                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0016                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0056588                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.2247515                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.7689559                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -0.0701842                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.9774986                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19.7                                                                                                                                                                                             | 19.7                                                     |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.01266                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0012204                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0382272                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0382                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0435613                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>442</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 442         | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 442                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>442.0489772</td><td>--</td></tr></table>                     | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 442.0489772 | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Test Result Name           | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Verify Calculated CO2                                                                                                                                                                            |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Carbon dioxide             | 442.0489772                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Manufacturer Test Comments | Lab Comments: kein Kommentar!; VeCeD: COLDCO Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |



Certification Summary Information Report

| Test Group           |               | VVGAJ02.0A2H              |               |                |     | Evaporative/Refueling Family |                          |        |         | VVGAR0171ADE        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 50,000 miles  | Federal Tier 3 Bin 30     | CO            | 0.22           | --  | --                           | --                       | 0.1000 | --      | 0.3                 | 10.0     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | HC-NM         | 0.04           | --  | --                           | --                       | 0.0032 | --      | 0.0                 | 0.3      | Pass      |
| CA                   | 50,000 miles  | California LEV-IV SULEV25 | CO            | 0.22           | --  | --                           | --                       | 0.1000 | --      | 0.3                 | 10.0     | Pass      |

## Certification Summary Information Report

|                                                |                                           |                                       |                                                    |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VVGAJ02.0A2H                              | <b>Evaporative/Refueling Family</b>   | VVGAR0171ADE                                       |
| <b>Test #</b>                                  | <b>TVGA10092285</b>                       | <b>Test Procedure</b>                 | <b>49 - Quick-Driveway (QD)</b>                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/30/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3365                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 405.5113966           | --                                                       |
| CO BAG 1 (Bag 1 Carbon Monoxide)                   | 0.5708                | --                                                       |
| CH4 BAG 1 (Bag 1 Methane)                          | 0.0096                | --                                                       |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)       | 0.008588              | --                                                       |
| METHANE (CH4 - Methane)                            | 0.009568              | --                                                       |
| CO (Carbon Monoxide)                               | 0.5707954             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.9709169             | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.4875393             | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 1.542342              | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 21.4                  | 21.4                                                     |
| NOX (Nitrogen Oxide)                               | 0.008142              | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0054411             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0402504             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.008588              | --                                                       |
| PM (Particulate Matter)                            | 0                     | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0496439             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 407                   | --                              |

## Certification Summary Information Report

| Test Group                 |               | VVG AJ02.0A2H             |               |                                                                                          |     | Evaporative/Refueling Family |                          |        |         | VVGAR0171ADE        |          |           |
|----------------------------|---------------|---------------------------|---------------|------------------------------------------------------------------------------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name          |               | Unrounded Test Result                                                                    |     | Verify Calculated CO2        |                          |        |         |                     |          |           |
|                            |               | Carbon dioxide            |               | 405.5113966                                                                              |     | --                           |                          |        |         |                     |          |           |
| Manufacturer Test Comments |               |                           |               | Lab Comments: kein Kommentar!; VeCeD: Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3 |     |                              |                          |        |         |                     |          |           |
| Certification Region       | Useful Life   | Standard Level            | Emission Name | Rounded Result                                                                           | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0086                                                                                   | --  | 1.099                        | --                       | 0.0044 | --      | 0.013               | 99.999   | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0167                                                                                   | --  | --                           | --                       | --     | --      | 0.024               | 0.042    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0081                                                                                   | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0086                                                                                   | --  | 1.099                        | --                       | 0.0044 | --      | 0.013               | 99.999   | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0167                                                                                   | --  | --                           | --                       | --     | --      | 0.024               | 0.037    | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0081                                                                                   | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |

## Certification Summary Information Report

| Test Group                              | VVGAJ02.0A2H                              | Evaporative/Refueling Family   | VVGAR0171ADE                                       |
|-----------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------------|
| Test #                                  | TVGA10092286                              | Test Procedure                 | 52 - Fed. fuel 50 F exh.                           |
| Exhaust Test # for this Evap Test       | --                                        | Test Fuel Type                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| Test Date                               | 08/19/2025                                | Fuel                           | Gasoline                                           |
| Fuel Batch ID                           | IG0045                                    | Fuel Calibration Number        | 9                                                  |
| Vehicle Class                           | LDV/Passenger Car                         | DF Type                        | Mfr. Determined                                    |
| Verify Test Lab ID                      | AUDI AG Ingolstadt                        |                                |                                                    |
| E10 Evaporative Test Measurement Method | --                                        |                                |                                                    |
| Test Start Odometer Reading             | 3698                                      | Odometer Units                 | M                                                  |
| 4WD Test Dyno                           | Yes                                       | Diesel Adjustment Factor Usage | --                                                 |
| State of Charge Delta                   | --                                        |                                |                                                    |
| Drive Cycle Speed Tolerance Criteria    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage           | Yes                                                |
| Test Results                            |                                           |                                |                                                    |

## Certification Summary Information Report

| Test Group                 | VVGAJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Evaporative/Refueling Family                                                                                                                                                                     | VVGAR0171ADE                                             |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|--------|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|---|----|----------------------------------------------|---|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|--------|----|-------------------------|-----------|----|----------------------|-----------|----|----------------------------------------------------|----------|----|--------------------------------------------|-----------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|-----------|----|---------------------------------|-----------|----|----------------------------------|--------|----|------------------------------|-----------|----|--|--|
|                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>411.2865276</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.5197</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>21.1297402</td><td>21.1297402</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0138</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0561</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>439.8568898</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0003</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>19.8058944</td><td>19.8058944</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>364.0722371</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0156</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>23.9267157</td><td>23.9267157</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0017</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0001</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0033473</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1120827</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.423362</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.6978477</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.509813</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>21.1</td><td>21.1</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0089414</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0105779</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0106</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0138482</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                 | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 411.2865276                      | --          | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.5197 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 21.1297402 | 21.1297402 | CH4 BAG 1 (Bag 1 Methane) | 0.0138 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0561 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 439.8568898 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.0003 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 19.8058944 | 19.8058944 | CH4 BAG 2 (Bag 2 Methane) | 0 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 364.0722371 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.0156 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 23.9267157 | 23.9267157 | CH4 BAG 3 (Bag 3 Methane) | 0.0017 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0.0001 | -- | METHANE (CH4 - Methane) | 0.0033473 | -- | CO (Carbon Monoxide) | 0.1120827 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.423362 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.6978477 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 2.509813 | -- | MFR FE (Manufacturer Fuel Economy) | 21.1 | 21.1 | NOX (Nitrogen Oxide) | 0.0089414 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0105779 | -- | NMOG (Non-methane organic gases) | 0.0106 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0138482 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 411.2865276                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.5197                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 21.1297402                                                                                                                                                                                       | 21.1297402                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0138                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0561                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 439.8568898                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0003                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19.8058944                                                                                                                                                                                       | 19.8058944                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 364.0722371                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0156                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 23.9267157                                                                                                                                                                                       | 23.9267157                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0017                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0001                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0033473                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.1120827                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.423362                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.6978477                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.509813                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 21.1                                                                                                                                                                                             | 21.1                                                     |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0089414                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0105779                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0106                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0138482                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>413</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 413         | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 413                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>413.1263297</td><td>--</td></tr></table>                     | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 413.1263297 | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CO2                                    |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Carbon dioxide             | 413.1263297                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Manufacturer Test Comments | Lab Comments: kein Kommentar!; VeCeD: 50FTP Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |

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## Certification Summary Information Report

|                                                |                                           |                                       |                                                    |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VVGAJ02.0A2H                              | <b>Evaporative/Refueling Family</b>   | VVGAR0171ADE                                       |
| <b>Test #</b>                                  | <b>TVGA10092270</b>                       | <b>Test Procedure</b>                 | <b>3 - HWFE</b>                                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/30/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3368                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0.0001052             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0278904             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 2.105093              | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.6291797             | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 2.568537              | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 34.6                  | 34.6                                                     |
| NOX (Nitrogen Oxide)                               | 0.0013949             | --                                                       |
| N2O (Nitrous Oxide)                                | 0                     | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0001512             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0002                | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0002545             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 252                   | 252                             |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 252.2168745           | --                    |

## Manufacturer Test Comments

Lab Comments: kein Kommentar!; VeCeD: HWY Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3

## Certification Summary Information Report

| Test Group           |               | VVGAJ02.0A2H              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VVGAR0171ADE        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | CREE          | 252            | --                           | --               | --                       | 0.3900 | --      | 252                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0002         | --                           | 1.0300           | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0016         | --                           | --               | --                       | --     | --      | 0.009               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0014         | --                           | --               | --                       | 0.0027 | --      | 0.004               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0002         | --                           | 1.0300           | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0016         | --                           | --               | --                       | --     | --      | 0.009               | 0.025    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0014         | --                           | --               | --                       | 0.0027 | --      | 0.004               | 99.999   | Pass      |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**



## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADE                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092283</b>                       | <b>Test Procedure</b>                 | <b>90 - US06</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/15/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3182                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |
| <b>Test Results</b>                            |                                           |                                       |                                                    |

## Certification Summary Information Report

| Test Group                 | VVGAJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Evaporative/Refueling Family                                                                                                                                                                     | VVGAR0171ADE                                             |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|-------|----|----------------------------------------------|--------|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|-------|----|-------------------------|----------|----|----------------------|-----------|----|----------------------------------------------------|-----------|----|--------------------------------------------|------------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|-----------|----|---------------------|-----------|----|---------------------------------|----------|----|----------------------------------|--------|----|-------------------------|-----------|----|------------------------------|-----------|----|--|--|
|                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>576.6746262</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.0167</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>15.1060341</td><td>15.1060341</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.001</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0014</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>318.9085726</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.1451</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>27.2973611</td><td>27.2973611</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0012</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.001</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.001162</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1166986</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.2666909</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.3341222</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.086662</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>23.2</td><td>23.2</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0062737</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0000188</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.001074</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0011</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0002354</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0021986</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                 | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 576.6746262                      | --          | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.0167 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 15.1060341 | 15.1060341 | CH4 BAG 1 (Bag 1 Methane) | 0.001 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0014 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 318.9085726 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.1451 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 27.2973611 | 27.2973611 | CH4 BAG 2 (Bag 2 Methane) | 0.0012 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0.001 | -- | METHANE (CH4 - Methane) | 0.001162 | -- | CO (Carbon Monoxide) | 0.1166986 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.2666909 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.3341222 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 1.086662 | -- | MFR FE (Manufacturer Fuel Economy) | 23.2 | 23.2 | NOX (Nitrogen Oxide) | 0.0062737 | -- | N2O (Nitrous Oxide) | 0.0000188 | -- | HC-NM (Non-methane Hydrocarbon) | 0.001074 | -- | NMOG (Non-methane organic gases) | 0.0011 | -- | PM (Particulate Matter) | 0.0002354 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0021986 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 576.6746262                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0167                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15.1060341                                                                                                                                                                                       | 15.1060341                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.001                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0014                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 318.9085726                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.1451                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 27.2973611                                                                                                                                                                                       | 27.2973611                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.0012                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.001                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.001162                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.1166986                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.2666909                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -0.3341222                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.086662                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23.2                                                                                                                                                                                             | 23.2                                                     |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0062737                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0000188                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.001074                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0011                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0002354                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0021986                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>376</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 376         | --                               |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 376                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>375.9892684</td><td>--</td></tr></table>                     | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 375.9892684 | --                               |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Test Result Name           | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Verify Calculated CO2                                                                                                                                                                            |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Carbon dioxide             | 375.9892684                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Manufacturer Test Comments | Lab Comments: kein Kommentar!; VeCeD: US06 Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |

## Certification Summary Information Report

| Test Group           |               | VVG AJ02.0A2H             |               |                |     | Evaporative/Refueling Family |                          |        |         | VVG AR0171ADE       |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO            | 0.1167         | --  | --                           | --                       | 0.3000 | --      | 0.417               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0011         | --  | 1.0300                       | --                       | 0.0044 | --      | 0.006               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0063         | --  | --                           | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | PM            | 0.0002         | --  | --                           | --                       | 0.0001 | --      | 0.000               | 0.006    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | CO            | 0.12           | --  | --                           | --                       | 0.3000 | --      | 0.4                 | 9.6      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0011         | --  | 1.0300                       | --                       | 0.0044 | --      | 0.006               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0074         | --  | --                           | --                       | --     | --      | 0.014               | 0.030    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0063         | --  | --                           | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | PM            | 0.0002         | --  | --                           | --                       | 0.0001 | --      | 0.000               | 0.003    | Pass      |

## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADE                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092269</b>                       | <b>Test Procedure</b>                 | <b>95 - SC03</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/28/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3350                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0.0021113             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0766967             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.113407              | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.3992158             | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 1.69804               | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 20.2                  | 20.2                                                     |
| NOX (Nitrogen Oxide)                               | 0.0078867             | --                                                       |
| N2O (Nitrous Oxide)                                | 0                     | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0005321             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0005                | --                                                       |
| PM (Particulate Matter)                            | 0.0002716             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0025725             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 432                   | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 432.2274727           | --                    |

## Manufacturer Test Comments

Lab Comments: kein Kommentar!; VeCeD: SC03 Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3

## Certification Summary Information Report

| Test Group           |               | VVGAJ02.0A2H              |               |                |     | Evaporative/Refueling Family |                          |        |         | VVGAR0171ADE        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO            | 0.0767         | --  | --                           | --                       | 0.3000 | --      | 0.377               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0005         | --  | 1.0300                       | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0079         | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | CO            | 0.08           | --  | --                           | --                       | 0.3000 | --      | 0.4                 | 1.0      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0005         | --  | 1.0300                       | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0084         | --  | --                           | --                       | --     | --      | 0.016               | 0.025    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0079         | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |

## Certification Summary Information Report

| Test Group                                                                | VVGAJ02.0A2H                                       | Evaporative/Refueling Family                                              | VVGAR0171ADE |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>IG0045</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 07/05/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 09/19/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.754        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.7                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17960        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.829                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>IG0045</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>9</b>     |
| <b>Test Fuel Type</b>                                                     | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 07/05/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 09/19/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.754        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.7                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | --           |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | 41.775                                             | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | 0.829        |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | --                                                 | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>WB0027</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 05/03/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 06/12/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.752        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.8                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17969        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.833                                              | <b>Weight Fraction CO2</b>                                                | --           |

## Certification Summary Information Report

|                                |               |                                     |     |                              |                                 |                                   |                                         |        |        |
|--------------------------------|---------------|-------------------------------------|-----|------------------------------|---------------------------------|-----------------------------------|-----------------------------------------|--------|--------|
| Test Group                     |               | VVGAJ02.0A2H                        |     | Evaporative/Refueling Family |                                 |                                   | VVGAR0171ADE                            |        |        |
| Consolidated List of Standards |               |                                     |     |                              |                                 |                                   |                                         |        |        |
| Exhaust Standards              |               |                                     |     |                              |                                 |                                   |                                         |        |        |
| Cert Region                    |               | Federal                             |     | Cert/In-Use Code             |                                 |                                   | Both                                    |        |        |
| Vehicle Class                  |               | LDV/Passenger Car                   |     | Standard Level               |                                 |                                   | Federal Tier 3 Bin 30                   |        |        |
| Fuel                           |               | Gasoline                            |     | Test Procedure               |                                 |                                   | Federal fuel 2-day exhaust (w/can load) |        |        |
| Useful Life                    | Emission Name | Rounded Result                      | RAF | NMOG / NMHC                  | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF                                 | Add DF | Std    |
| 120,000 miles                  | CREE          | --                                  | --  | --                           | --                              | --                                | --                                      | 0.3900 | 999    |
| 120,000 miles                  | METHANE       | --                                  | --  | --                           | --                              | --                                | --                                      | 0.0014 | 0.030  |
| 120,000 miles                  | N2O           | --                                  | --  | --                           | --                              | --                                | --                                      | 0.0005 | 0.010  |
| 150,000 miles                  | CO            | --                                  | --  | --                           | --                              | --                                | --                                      | 0.3000 | 1.0    |
| 150,000 miles                  | CO-COMP       | --                                  | --  | --                           | --                              | --                                | --                                      | --     | 4.2    |
| 150,000 miles                  | NMOG          | --                                  | --  | 1.099                        | --                              | --                                | --                                      | 0.0044 | 99.999 |
| 150,000 miles                  | NMOG+NOX      | --                                  | --  | --                           | --                              | --                                | 1                                       | --     | 0.030  |
| 150,000 miles                  | NMOG+NOX-COMP | --                                  | --  | --                           | --                              | --                                | --                                      | --     | 0.040  |
| 150,000 miles                  | NOX           | --                                  | --  | --                           | --                              | --                                | --                                      | 0.0027 | 99.999 |
| 150,000 miles                  | PM            | --                                  | --  | --                           | --                              | --                                | --                                      | 0.0001 | 0.003  |
|                                |               |                                     |     |                              |                                 |                                   |                                         |        |        |
| Cert Region                    |               | California + CAA Section 177 states |     | Cert/In-Use Code             |                                 |                                   | Both                                    |        |        |
| Vehicle Class                  |               | LDV/Passenger Car                   |     | Standard Level               |                                 |                                   | California LEV-IV SULEV25               |        |        |
| Fuel                           |               | Gasoline                            |     | Test Procedure               |                                 |                                   | SC03                                    |        |        |
| Useful Life                    | Emission Name | Rounded Result                      | RAF | NMOG / NMHC                  | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF                                 | Add DF | Std    |
| 150,000 miles                  | CO            | --                                  | --  | --                           | --                              | --                                | --                                      | 0.3000 | 1.0    |
| 150,000 miles                  | NMOG          | --                                  | --  | 1.0300                       | --                              | --                                | --                                      | 0.0044 | 99.999 |
| 150,000 miles                  | NMOG+NOX      | --                                  | --  | --                           | --                              | --                                | 1                                       | --     | 0.025  |
| 150,000 miles                  | NOX           | --                                  | --  | --                           | --                              | --                                | --                                      | 0.0027 | 99.999 |
|                                |               |                                     |     |                              |                                 |                                   |                                         |        |        |

## Certification Summary Information Report

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VVGAJ02.0A2H          |            |                    | Evaporative/Refueling Family           |                                          |                | VVGAR0171ADE          |            |
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | SC03                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 150,000 miles        | CO                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.3000                | 99.999     |
| 150,000 miles        | NMOG                 | --                    | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                | 99.999     |
| 150,000 miles        | NOX                  | --                    | --         | --                 | --                                     | --                                       | --             | 0.0027                | 99.999     |

|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                                    |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25               |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Federal fuel 2-day exhaust (w/can load) |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                           | <b>Std</b> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.3000                                  | 1.0        |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | 0.0044                                  | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                                      | 0.025      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                                  | 99.999     |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0001                                  | 0.001      |

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | Cold CO               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 50,000 miles         | CO                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.1000                | 10.0       |
| 120,000 miles        | HC-NM                | --                    | --         | --                 | --                                     | --                                       | --             | 0.0032                | 0.3        |



## Certification Summary Information Report

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Test Group</b>    |                      | VVGAJ02.0A2H                        |            |                    | Evaporative/Refueling Family           |                                          |                | VVGAR0171ADE              |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | US06                      |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.3000                    | 9.6        |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.030      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0001                    | 0.003      |
|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Fed. fuel 50 F exh.       |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 4,000 miles          | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | --                        | 1.0        |
| 4,000 miles          | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | --                        | 99.999     |
| 4,000 miles          | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.050      |
| 4,000 miles          | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | --                        | 99.9990    |
|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
| <b>Cert Region</b>   |                      | Federal                             |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30     |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Quick-Driveway (QD)       |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.042      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |

## Certification Summary Information Report

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VVG AJ02.0A2H         |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VVGAR0171ADE          |            |
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 120,000 miles        | CREE                 | --                    | --         | --                 | --                                     | --                                       | --             | 0.3900                | 999        |
| 150,000 miles        | NMOG                 | --                    | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                    | --         | --                 | --                                     | --                                       | 1              | --                    | 0.030      |
| 150,000 miles        | NOX                  | --                    | --         | --                 | --                                     | --                                       | --             | 0.0027                | 99.999     |

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                      |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.025      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Quick-Driveway (QD)       |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.037      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |

## Certification Summary Information Report

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VVGAJ02.0A2H          |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VVGAR0171ADE          |            |
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | US06                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 150,000 miles        | CO                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.3000                | 99.999     |
| 150,000 miles        | NMOG                 | --                    | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                | 99.999     |
| 150,000 miles        | NOX                  | --                    | --         | --                 | --                                     | --                                       | --             | 0.0027                | 99.999     |
| 150,000 miles        | PM                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.0001                | 0.006      |

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Cold CO                   |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 50,000 miles         | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.1000                    | 10.0       |

## Evaporative/Refueling Standards

|                              |               |                                    |                |                |      |                     |  |
|------------------------------|---------------|------------------------------------|----------------|----------------|------|---------------------|--|
| Evaporative/Refueling Family |               | VVGAR0171ADE                       |                | Cert Region    |      | Federal             |  |
| Cert/In-Use Code             |               | Both                               |                | Standard Level |      | Federal Tier 3 Evap |  |
| Test Procedure               |               | Federal fuel refueling test (ORVR) |                |                |      |                     |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result |                | Std  | Add DF              |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV                     | --             |                | 0.20 | 0.000               |  |

|                              |               |                |                |                |       |                     |  |
|------------------------------|---------------|----------------|----------------|----------------|-------|---------------------|--|
| Evaporative/Refueling Family |               | VVGAR0171ADE   |                | Cert Region    |       | Federal             |  |
| Cert/In-Use Code             |               | Both           |                | Standard Level |       | Federal Tier 3 Evap |  |
| Test Procedure               |               | 2-day evap     |                |                |       |                     |  |
| Fuel                         | Useful Life   | Emission Name  | Rounded Result |                | Std   | Add DF              |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV | --             |                | 0.425 | 0.0000              |  |

## Certification Summary Information Report

|                              |               |                           |                |                              |        |                                        |  |
|------------------------------|---------------|---------------------------|----------------|------------------------------|--------|----------------------------------------|--|
| Test Group                   |               | VVGAJ02.0A2H              |                | Evaporative/Refueling Family |        | VVGAR0171ADE                           |  |
| Evaporative/Refueling Family |               | VVGAR0171ADE              |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal fuel 3-day evap   |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.425                        | 0.000  |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADE              |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.05                         | 0.000  |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADE              |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Federal fuel 3-day evap   |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.425                        | 0.0000 |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADE              |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.01                         | 0.000  |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADE              |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | 2-day evap                |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.425                        | 0.000  |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |

## Certification Summary Information Report

|                              |  |                                    |  |                              |  |                                        |  |       |  |        |  |
|------------------------------|--|------------------------------------|--|------------------------------|--|----------------------------------------|--|-------|--|--------|--|
| Test Group                   |  | VVGAJ02.0A2H                       |  | Evaporative/Refueling Family |  | VVGAR0171ADE                           |  |       |  |        |  |
| Evaporative/Refueling Family |  | VVGAR0171ADE                       |  | Cert Region                  |  | California + CAA Section 177 states    |  |       |  |        |  |
| Cert/In-Use Code             |  | Both                               |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |       |  |        |  |
| Test Procedure               |  | Evap Canister Bleed Test           |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.020 |  | --     |  |
|                              |  |                                    |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VVGAR0171ADE                       |  | Cert Region                  |  | California + CAA Section 177 states    |  |       |  |        |  |
| Cert/In-Use Code             |  | Both                               |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |       |  |        |  |
| Test Procedure               |  | Federal fuel refueling test (ORVR) |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.20  |  | 0.000  |  |
|                              |  |                                    |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VVGAR0171ADE                       |  | Cert Region                  |  | Federal                                |  |       |  |        |  |
| Cert/In-Use Code             |  | Both                               |  | Standard Level               |  | Federal Tier 3 Evap                    |  |       |  |        |  |
| Test Procedure               |  | Evap Canister Bleed Test           |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.020 |  | --     |  |

## Certification Summary Information Report

| Test Group           |                                                                 | VVG AJ02.0A2H      | Evaporative/Refueling Family                       | VVG AR0171ADE |
|----------------------|-----------------------------------------------------------------|--------------------|----------------------------------------------------|---------------|
| Glossary             |                                                                 |                    |                                                    |               |
| <b>Useful Life</b>   |                                                                 |                    |                                                    |               |
| 4                    | 4,000 miles                                                     | 120                | 120,000 miles                                      |               |
| 50                   | 50,000 miles                                                    | 150                | 150,000 miles                                      |               |
| 100                  | 100,000 miles                                                   |                    |                                                    |               |
| <b>Emission Name</b> |                                                                 |                    |                                                    |               |
| HC-TOTAL             | Total Hydrocarbon                                               | COMB-CREE          | Combined Carbon-Related Exhaust Emissions          |               |
| CO                   | Carbon Monoxide                                                 | COMB-OPT-CREE      | Combined Optional Carbon-Related Exhaust Emissions |               |
| CO2                  | Carbon dioxide                                                  | HC-TOTAL-EQUIV     | Total Hydrocarbon equivalent - Evap only           |               |
| CREE                 | Carbon-Related Exhaust Emissions                                | METHANE-COMB       | Combined CH4 for HD 2b/3 vehicles only             |               |
| OPT-CREE             | Optional Carbon-Related Exhaust Emissions                       | N2O-COMB           | Combined Nitrous Oxide for HD 2b/3 vehicles only   |               |
| NOX                  | Nitrogen Oxide                                                  | LEAK-DIA           | Effective Leak Diameter (inches)                   |               |
| PM                   | Particulate Matter                                              | LEAK-GAS CAP       | Gas Cap Leakage (cc/min)                           |               |
| PM-COMP              | SFTP Composite Particulate Matter                               | CO2-COMB           | Combined Carbon Dioxide for HD 2b/3 Vehicles Only  |               |
| HC-NM                | Non-methane Hydrocarbon                                         | KW-HRS             | Integrated DC KW-HRS                               |               |
| OMHCE                | Organic material Hydrocarbon Equivalent                         | CH4 BAG 1          | Bag 1 Methane                                      |               |
| OMNMHCE              | Organic material non-methane HC equivalent                      | CH4 BAG 2          | Bag 2 Methane                                      |               |
| NMOG                 | Non-methane organic gases                                       | CH4 BAG 3          | Bag 3 Methane                                      |               |
| HCHO                 | Formaldehyde                                                    | CH4 BAG 4          | Bag 4 Methane                                      |               |
| H3C2HO               | Acetaldehyde                                                    | CO BAG 1           | Bag 1 Carbon Monoxide                              |               |
| HC-NM+NOX            | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | CO BAG 2           | Bag 2 Carbon Monoxide                              |               |
| HC-NM+NOX-COMP       | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        | CO BAG 3           | Bag 3 Carbon Monoxide                              |               |
| CO-COMP              | SFTP Composite Carbon Monoxide                                  | CO BAG 4           | Bag 4 Carbon Monoxide                              |               |
| ETHANOL              | C2H5OH - Ethanol                                                | NMOG BAG 1         | Bag 1 Non-methane organic gases                    |               |
| FE BAG 1             | Bag 1 Fuel Economy                                              | NMOG BAG 2         | Bag 2 Non-methane organic gases                    |               |
| FE BAG 2             | Bag 2 Fuel Economy                                              | NMOG BAG 3         | Bag 3 Non-methane organic gases                    |               |
| FE BAG 3             | Bag 3 Fuel Economy                                              | NMOG BAG 4         | Bag 4 Non-methane organic gases                    |               |
| FE BAG 4             | Bag 4 Fuel Economy                                              | ACT-DISTANCE BAG 1 | Bag 1 Actual Distance                              |               |
| MFR FE               | Manufacturer Fuel Economy                                       | ACT-DISTANCE BAG 2 | Bag 2 Actual Distance                              |               |
| HC                   | Hydrocarbon for Running Loss and ORVR                           | ACT-DISTANCE BAG 3 | Bag 3 Actual Distance                              |               |
| METHANE              | CH4 - Methane                                                   | ACT-DISTANCE BAG 4 | Bag 4 Actual Distance                              |               |
| METHANOL             | CH3OH - Methanol                                                | HC-TOTAL BAG 1     | Bag 1 Total Hydrocarbon                            |               |
| N2O                  | Nitrous Oxide                                                   | HC-TOTAL BAG 2     | Bag 2 Total Hydrocarbon                            |               |
| SPITBACK             | Spitback Hydrocarbon in grams                                   | HC-TOTAL BAG 3     | Bag 3 Total Hydrocarbon                            |               |
| AMP-HRS              | Integrated Amp-hours                                            | HC-TOTAL BAG 4     | Bag 4 Total Hydrocarbon                            |               |
| START-SOC            | System Start State of Charge Watt-hours                         | WATT-HRS BAG 1     | Bag 1 Watt Hours                                   |               |
| END-SOC              | System End State of Charge Watt-hours                           | WATT-HRS BAG 2     | Bag 2 Watt Hours                                   |               |

## Certification Summary Information Report

| Test Group                             |                                                            | VVGAJ02.0A2H | Evaporative/Refueling Family |                                                 | VVGAR0171ADE |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|--------------|
| ACT-DISTANCE                           | Actual Distance Driven (miles)                             |              | WATT-HRS BAG 3               | Bag 3 Watt Hours                                |              |
| AS-VOLT                                | Average System Voltage                                     |              | WATT-HRS BAG 4               | Bag 4 Watt Hours                                |              |
| CO2 BAG 1                              | Bag 1 Carbon Dioxide                                       |              | WATT-HRS                     | Watt Hours                                      |              |
| CO2 BAG 2                              | Bag 2 Carbon Dioxide                                       |              | HC-NM BAG 1                  | Bag 1 Non-methane Hydrocarbon                   |              |
| CO2 BAG 3                              | Bag 3 Carbon Dioxide                                       |              | HC-NM BAG 2                  | Bag 2 Non-methane Hydrocarbon                   |              |
| CO2 BAG 4                              | Bag 4 Carbon Dioxide                                       |              | HC-NM BAG 3                  | Bag 3 Non-methane Hydrocarbon                   |              |
| NMOG+NOX                               | Non-methane organic gases plus Nitrogen Oxides             |              | HC-NM BAG 4                  | Bag 4 Non-methane Hydrocarbon                   |              |
| NMOG+NOX-COMP                          | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |              | N2O BAG 1                    | Bag 1 Nitrous Oxide                             |              |
| DT-IWRR                                | Drive Trace Inertia Work Ratio Rating                      |              | N2O BAG 2                    | Bag 2 Nitrous Oxide                             |              |
| DT-ASCR                                | Drive Trace Absolute Speed Change Rating                   |              | N2O BAG 3                    | Bag 3 Nitrous Oxide                             |              |
| DT-EER                                 | Drive Trace Energy Economy Rating                          |              | N2O BAG 4                    | Bag 4 Nitrous Oxide                             |              |
| <b>Certification Region</b>            |                                                            |              |                              |                                                 |              |
| CA                                     | California + CAA Section 177 states                        |              | FA                           | Federal                                         |              |
| <b>Exhaust Emission Standard Level</b> |                                                            |              |                              |                                                 |              |
| B1                                     | Federal Tier 2 Bin 1                                       |              | HDV2B340                     | Federal Tier 3 HD Class 2b Transitional Bin 340 |              |
| B2                                     | Federal Tier 2 Bin 2                                       |              | HDV2B250                     | Federal Tier 3 HD Class 2b Bin 250              |              |
| B3                                     | Federal Tier 2 Bin 3                                       |              | HDV2B200                     | Federal Tier 3 HD Class 2b Bin 200              |              |
| B4                                     | Federal Tier 2 Bin 4                                       |              | HDV2B170                     | Federal Tier 3 HD Class 2b Bin 170              |              |
| B5                                     | Federal Tier 2 Bin 5                                       |              | HDV2B150                     | Federal Tier 3 HD Class 2b Bin 150              |              |
| B6                                     | Federal Tier 2 Bin 6                                       |              | HDV2B0                       | Federal Tier 3 HD Class 2b Bin 0                |              |
| B7                                     | Federal Tier 2 Bin 7                                       |              | HDV3B630                     | Federal Tier 3 HD Class 3 Transitional Bin 630  |              |
| B8                                     | Federal Tier 2 Bin 8                                       |              | HDV3B570                     | Federal Tier 3 HD Class 3 Transitional Bin 570  |              |
| B9                                     | Federal Tier 2 Bin 9                                       |              | HDV3B400                     | Federal Tier 3 HD Class 3 Bin 400               |              |
| B10                                    | Federal Tier 2 Bin 10                                      |              | HDV3B270                     | Federal Tier 3 HD Class 3 Bin 270               |              |
| B11                                    | Federal Tier 2 Bin 11                                      |              | HDV3B230                     | Federal Tier 3 HD Class 3 Bin 230               |              |
| HDV1                                   | HDV1 (Federal HD chassis Class 2b GVW 8501-10000)          |              | HDV3B200                     | Federal Tier 3 HD Class 3 Bin 200               |              |
| HDV2                                   | HDV2 (Federal HD chassis Class 3 GVW 10001-14000)          |              | HDV3B0                       | Federal Tier 3 HD Class 3 Bin 0                 |              |
| L2                                     | California LEV-II LEV                                      |              | L4SULEV100                   | California LEV-IV SULEV100                      |              |
| L2OP                                   | California LEV-II LEV Optional                             |              | L4SULEV125                   | California LEV-IV SULEV125                      |              |
| U2                                     | California LEV-II ULEV                                     |              | L4SULEV15                    | California LEV-IV SULEV15                       |              |
| S2                                     | California LEV-II SULEV                                    |              | L4SULEV150                   | California LEV-IV SULEV150                      |              |
| ZEV                                    | California ZEV                                             |              | L4SULEV170                   | California LEV-IV SULEV170                      |              |
| OT                                     | Other                                                      |              | L4SULEV175                   | California LEV-IV SULEV175                      |              |
| T1                                     | Federal Tier 1                                             |              | L4SULEV20                    | California LEV-IV SULEV20                       |              |
| PZEV                                   | California PZEV                                            |              | L4SULEV200                   | California LEV-IV SULEV200                      |              |
| L2LEV160                               | California LEV-II LEV160                                   |              | L4SULEV230                   | California LEV-IV SULEV230                      |              |
| L2ULEV125                              | California LEV-II ULEV125                                  |              | L4SULEV25                    | California LEV-IV SULEV25                       |              |
| L2SULEV30                              | California LEV-II SULEV30                                  |              | L4SULEV30                    | California LEV-IV SULEV30                       |              |
| L2LEV395                               | California LEV-II LEV395                                   |              | L4SULEV75                    | California LEV-IV SULEV75                       |              |

## Certification Summary Information Report

| Test Group                    |                                                                   | VVGAJ02.0A2H | Evaporative/Refueling Family                             |                            | VVGAR0171ADE |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|--------------|
| L2ULEV340                     | California LEV-II ULEV340                                         |              | L4SULEV85                                                | California LEV-IV SULEV85  |              |
| L2LEV630                      | California LEV-II LEV630                                          |              | L4ULEV125                                                | California LEV-IV ULEV125  |              |
| L2ULEV570                     | California LEV-II ULEV570                                         |              | L4ULEV200                                                | California LEV-IV ULEV200  |              |
| L3LEV160                      | California LEV-III LEV160                                         |              | L4ULEV250                                                | California LEV-IV ULEV250  |              |
| L3ULEV125                     | California LEV-III ULEV125                                        |              | L4ULEV270                                                | California LEV-IV ULEV270  |              |
| L3ULEV70                      | California LEV-III ULEV70                                         |              | L4ULEV40                                                 | California LEV-IV ULEV40   |              |
| L3ULEV50                      | California LEV-III ULEV50                                         |              | L4ULEV400                                                | California LEV-IV ULEV400  |              |
| L3SULEV30                     | California LEV-III SULEV30                                        |              | L4ULEV50                                                 | California LEV-IV ULEV50   |              |
| L3SULEV20                     | California LEV-III SULEV20                                        |              | L4ULEV60                                                 | California LEV-IV ULEV60   |              |
| L3LEV395                      | California LEV-III LEV395                                         |              | L4ULEV70                                                 | California LEV-IV ULEV70   |              |
| L3ULEV340                     | California LEV-III ULEV340                                        |              | T4B170                                                   | Federal Tier 4 MDV Bin 170 |              |
| L3ULEV250                     | California LEV-III ULEV250                                        |              | T4B150                                                   | Federal Tier 4 MDV Bin 150 |              |
| L3ULEV200                     | California LEV-III ULEV200                                        |              | T4B125                                                   | Federal Tier 4 MDV Bin 125 |              |
| L3SULEV170                    | California LEV-III SULEV170                                       |              | T4B100                                                   | Federal Tier 4 MDV Bin 100 |              |
| L3SULEV150                    | California LEV-III SULEV150                                       |              | T4B85                                                    | Federal Tier 4 MDV Bin 85  |              |
| L3LEV630                      | California LEV-III LEV630                                         |              | T4B75                                                    | Federal Tier 4 MDV Bin 75  |              |
| L3ULEV570                     | California LEV-III ULEV570                                        |              | T4B70                                                    | Federal Tier 4 Bin 70      |              |
| L3ULEV400                     | California LEV-III ULEV400                                        |              | T4B65                                                    | Federal Tier 4 Bin 65      |              |
| L3ULEV270                     | California LEV-III ULEV270                                        |              | T4B60                                                    | Federal Tier 4 Bin 60      |              |
| L3SULEV230                    | California LEV-III SULEV230                                       |              | T4B55                                                    | Federal Tier 4 Bin 55      |              |
| L3SULEV200                    | California LEV-III SULEV200                                       |              | T4B50                                                    | Federal Tier 4 Bin 50      |              |
| T3B160                        | Federal Tier 3 Bin 160                                            |              | T4B45                                                    | Federal Tier 4 Bin 45      |              |
| T3B125                        | Federal Tier 3 Bin 125                                            |              | T4B40                                                    | Federal Tier 4 Bin 40      |              |
| T3B110                        | Federal Tier 3 Transitional Bin 110                               |              | T4B35                                                    | Federal Tier 4 Bin 35      |              |
| T3B85                         | Federal Tier 3 Transitional Bin 85                                |              | T4B30                                                    | Federal Tier 4 Bin 30      |              |
| T3SULEV30                     | Federal Tier 3 Transitional LEV-II SULEV30 Carryover              |              | T4B25                                                    | Federal Tier 4 Bin 25      |              |
| T3B70                         | Federal Tier 3 Bin 70                                             |              | T4B20                                                    | Federal Tier 4 Bin 20      |              |
| T3B50                         | Federal Tier 3 Bin 50                                             |              | T4B15                                                    | Federal Tier 4 Bin 15      |              |
| T3B30                         | Federal Tier 3 Bin 30                                             |              | T4B10                                                    | Federal Tier 4 Bin 10      |              |
| T3B20                         | Federal Tier 3 Bin 20                                             |              | T4B5                                                     | Federal Tier 4 Bin 5       |              |
| T3B0                          | Federal Tier 3 Bin 0                                              |              | T4B0                                                     | Federal Tier 4 Bin 0       |              |
| HDV2B395                      | Federal Tier 3 HD Class 2b Transitional Bin 395                   |              |                                                          |                            |              |
| <b>Transmission Type Code</b> |                                                                   |              |                                                          |                            |              |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M            | Manual                                                   |                            |              |
| A                             | Automatic                                                         | OT           | Other                                                    |                            |              |
| AM                            | Automated Manual                                                  | SA           | Semi-Automatic                                           |                            |              |
| CVT                           | Continuously Variable                                             | SCV          | Selectable Continuously Variable (e.g. CVT with paddles) |                            |              |
| <b>Drive System Code</b>      |                                                                   |              |                                                          |                            |              |
| 4                             | 4-Wheel Drive                                                     | P            | Part-time 4-Wheel Drive                                  |                            |              |



Certification Summary Information Report

| Test Group                    |                                 | VVGAJ02.0A2H | Evaporative/Refueling Family |                                  | VVGAR0171ADE |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|--------------|
| F                             | 2-Wheel Drive, Front            |              | A                            | All Wheel Drive                  |              |
| R                             | 2-Wheel Drive, Rear             |              |                              |                                  |              |
| Additional Terms and Acronyms |                                 |              |                              |                                  |              |
| AFC                           | Alternative Fuel Converter      |              | ICI                          | Independent Commercial Importer  |              |
| CSI                           | Certificate Summary Information |              | ORVR                         | Onboard Refueling Vapor Recovery |              |
| DF                            | Deterioration Factor            |              | SIL                          | Shift Indicator Light            |              |
| Evap                          | Evaporation, Evaporative        |              | Trans                        | Transmission                     |              |

## Certification Summary Information Report

|                                   |                                   |                                     |                        |
|-----------------------------------|-----------------------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Volkswagen Group of America, Inc. | <b>Manufacturer Code</b>            | VGA                    |
| <b>Test Group</b>                 | VVGAJ02.0A2H                      | <b>Evaporative/Refueling Family</b> | VVGAR0171ADF           |
| <b>Certificate Number</b>         | --                                | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | --                                | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | --                                | <b>Conditional Certificate</b>      | --                     |
| <b>CSI Revision #</b>             | --                                | <b>CSI Submission/Revision Date</b> | 07/14/2026 03:38:28 PM |
| <b>Model Year</b>                 | 2027                              |                                     |                        |

  
**Test Group Information**

|                          |                       |                                        |    |
|--------------------------|-----------------------|----------------------------------------|----|
| <b>CSI Type</b>          | Update for Correction | <b>Running Change Reference Number</b> | -- |
| <b>GHG Exempt Status</b> | Not Exempt            |                                        |    |

  
**Drive Sources and Fuel(s)**

**Drive Source #1:** Combustion Engine

| Fuel     | Basic Fuel Metering System           | Lean Burn Strategy Indicator |
|----------|--------------------------------------|------------------------------|
| Gasoline | Spark Ignition Direct fuel injection | No                           |

|                                                     |                        |                                                            |              |
|-----------------------------------------------------|------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | No                     |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                     | <b>Rechargeable Energy Storage System Indicator</b>        | --           |
| <b>Multiple Fuel Combustion</b>                     | --                     | <b>Off-board Charge Capable Indicator</b>                  | --           |
| <b>Fuel Cell Indicator</b>                          | No                     | <b>EPA Vehicle Class</b>                                   | LDV, LDT2    |
| <b>Federal Clean Fuel Vehicle</b>                   | No                     | <b>Federal Clean Fuel Vehicle Standard</b>                 | --           |
| <b>Federal Clean Fuel Vehicle ILEV</b>              | No                     | <b>California Partial Zero Emissions Vehicle Indicator</b> | --           |
| <b>Durability Group Name</b>                        | VVGAGPGNNA3H           | <b>Durability Group Equivalency Factor</b>                 | 2.2          |
| <b>Reduced Fee Test Group</b>                       | No                     | <b>Certification Region Code(s)</b>                        | FA, CA       |
| <b>Complies with HD GHG 2b/3 regulations?</b>       | No                     |                                                            |              |
| <b>Introduction into Commerce Date</b>              | 07/27/2026             | <b>CAP2000 Conditional Certificate?</b>                    | N/A          |
| <b>Independent Commercial Importer?</b>             | --                     | <b>Alternative Fuel Converter Certificate?</b>             | --           |
| <b>SFTP Federal Composite Compliance Identifier</b> | Tier 3                 | <b>SFTP Tier 2 Composite CO Option</b>                     | No           |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | No                     |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                   | <b>OBD Demonstration Vehicle Test Group</b>                | VVGAJ02.0V3T |
| <b>Test Group OBD Compliance Level</b>              | Full - no deficiencies | <b>Number of Test Group OBD Deficiencies</b>               | 0            |
| <b>OBD Deficiencies Comments</b>                    | --                     |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | --                     |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                     |                                                            |              |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VVGAJ02.0A2H | <b>Evaporative/Refueling Family</b> | VVGAR0171ADF |
|-------------------|--------------|-------------------------------------|--------------|

|                                                                                                |             |                                                           |                        |
|------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------|------------------------|
| <b>Evaporative/Refueling Family Information</b>                                                |             |                                                           |                        |
| <b>Evaporative Summary Information Type</b>                                                    | New         | <b>Submission/Correction Date</b>                         | 06/30/2026 11:36:52 AM |
| <b>Integrated ORVR?</b>                                                                        | Yes         | <b>Fuel(s)</b>                                            | Gasoline               |
| <b>Multiple Fuel Storage</b>                                                                   | --          |                                                           |                        |
| <b>Bladder Fuel Tank?</b>                                                                      | No          |                                                           |                        |
| <b>Fuel Tank Material</b>                                                                      | Plastic     | <b>Fuel Tank Material Description</b>                     | HDPE                   |
| <b>Fill Pipe Seal Type</b>                                                                     | Liquid seal |                                                           |                        |
| <b>Air Intake System Vapor Storage Device?</b>                                                 | No          | <b>Air Intake System Vapor Storage Device Description</b> | --                     |
| <b>Fuel System Vapor Storage Canister?</b>                                                     | Yes         | <b>Other Vapor Storage</b>                                | --                     |
| <b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>                    | 171         | <b>Number of Primary Canisters</b>                        | 1                      |
| <b>Number of Bleed Canisters</b>                                                               | 2           | <b>Bleed Canister Total Working Capacity (grams)</b>      | 6                      |
| <b>Mfr Evaporative/Refueling Family Comments</b> Integrated Bleed Canister FEL 375 mg - Q5/SQ5 |             |                                                           |                        |

|                                                 |     |                                                         |          |
|-------------------------------------------------|-----|---------------------------------------------------------|----------|
| <b>Leak Family Details</b>                      |     |                                                         |          |
| <b>Leak Family Indicator</b>                    | Yes |                                                         |          |
| <b>Canister Bleed Test Indicator</b>            | Yes | <b>Applicability of Evaporative Canister Bleed Test</b> | 50 State |
| <b>Evaporative Canister Bleed Test Comments</b> | --  |                                                         |          |
| <b>CARB Fuel Only (Rig) Test Indicator</b>      | No  | <b>Applicability of CARB Fuel Only (Rig) Test</b>       | --       |
| <b>CARB Fuel Only (Rig) Test Comments</b>       | --  |                                                         |          |

| Leak Family Name | Applicability of Leak Family Requirements | Leak Family Standard (inches) | Leak Family Description |
|------------------|-------------------------------------------|-------------------------------|-------------------------|
| VVGAR0171ADF-001 | 50 State                                  | 0.02                          | --                      |

| <b>Models Covered by this Certificate</b> |          |                                 |                                     |                 |                                                                  |              |                |
|-------------------------------------------|----------|---------------------------------|-------------------------------------|-----------------|------------------------------------------------------------------|--------------|----------------|
| Carline Manufacturer                      | Division | Carline                         | Certification Region Code(s)        | Drive System    | Trans - Type                                                     | - # of Gears | Trans - Lockup |
| Volkswagen Group of America, Inc.         | 2 - Audi | 341 - Q5 Sportback TFSI quattro | Federal                             | All Wheel Drive | Automated Manual-Selectable (e.g. Automated Manual with paddles) | 7            | No             |
| Volkswagen Group of America, Inc.         | 2 - Audi | 341 - Q5 Sportback TFSI quattro | California + CAA Section 177 states | All Wheel Drive | Automated Manual-Selectable (e.g. Automated Manual with paddles) | 7            | No             |
| Volkswagen Group of America, Inc.         | 2 - Audi | 340 - Q5 TFSI quattro           | Federal                             | All Wheel Drive | Automated Manual-Selectable (e.g. Automated Manual with paddles) | 7            | No             |
| Volkswagen Group of America, Inc.         | 2 - Audi | 340 - Q5 TFSI quattro           | California + CAA Section 177 states | All Wheel Drive | Automated Manual-Selectable (e.g. Automated Manual with paddles) | 7            | No             |

## Certification Summary Information Report

|                                                  |                               |                                                          |                           |                               |
|--------------------------------------------------|-------------------------------|----------------------------------------------------------|---------------------------|-------------------------------|
| <b>Test Group</b>                                | VVGAJ02.0A2H                  | <b>Evaporative/Refueling Family</b>                      | VVGAR0171ADF              |                               |
| <b>Engine Description</b>                        |                               |                                                          |                           |                               |
| <b>Hybrid Type</b>                               | --                            | <b>Hybrid Description</b>                                | --                        |                               |
| <b>Engine Type</b>                               | 4-Stroke Spark Ignition       | <b>Mfr Engine Description</b>                            | --                        |                               |
| <b>Engine Block Arrangement</b>                  | Inline                        | <b>Mfr Engine Block Arrangement Description</b>          | --                        |                               |
| <b>Camless Valvetrain Indicator</b>              | No                            | <b>Oil Viscosity/Classification</b>                      | 0W20 VW50800              |                               |
| <b>Number of Cylinders/Rotors</b>                | 4                             | <b>Mechanically Variable Compression Ratio Indicator</b> | N                         |                               |
| <b>After Treatment Device(s) (ATD)</b>           |                               |                                                          |                           |                               |
| <b>ATD Number</b>                                | <b>ATD Type</b>               | <b>ATD Precious Metal</b>                                | <b>Substrate Material</b> | <b>Substrate Construction</b> |
| 1                                                | Three-way catalyst            | Palladium + Rhodium                                      | Ceramic                   | Monolith                      |
| 2                                                | Three-way catalyst            | Platinum + Palladium + Rhodium                           | Ceramic                   | Monolith                      |
| 3                                                | Other                         | Gasoline Particulate Filter                              | Ceramic                   | Other                         |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                               |                                                          |                           |                               |
| --                                               |                               |                                                          |                           |                               |
| <b>Direct Ozone Reduction (DOR) Device</b>       |                               |                                                          |                           |                               |
| Not Equipped                                     |                               |                                                          |                           |                               |
| <b>Mfr Emission Control Device Comments</b>      |                               |                                                          |                           |                               |
| --                                               |                               |                                                          |                           |                               |
| <b>Engine Configuration Number 1</b>             |                               |                                                          |                           |                               |
| <b>Engine Displacement (liters)</b>              | 2.0                           | <b>Engine Rated Horsepower</b>                           | 268                       |                               |
| <b>Number of Inlet Valves Per Cylinder</b>       | 2                             | <b>Number of Exhaust Valves Per Cylinder</b>             | 2                         |                               |
| <b>Air Aspiration Method</b>                     | Turbocharged                  | <b>Number of Air Aspiration Devices</b>                  | 1                         |                               |
| <b>Air Aspiration Device Configuration</b>       | Single                        | <b>Charge Air Cooler Type</b>                            | Liquid                    |                               |
| <b>Air Aspiration Drive Method(s)</b>            | Mechanical                    |                                                          |                           |                               |
| <b>Cylinder Deactivation</b>                     | No                            |                                                          |                           |                               |
| <b>Cylinder Deactivation Description</b>         | --                            |                                                          |                           |                               |
| <b>Variable Valve Timing</b>                     | Yes                           |                                                          |                           |                               |
| <b>Variable Valve Timing System Description</b>  | Electronic / Hydraulic        |                                                          |                           |                               |
| <b>Variable Valve Lift?</b>                      | Yes                           |                                                          |                           |                               |
| <b>Variable Valve Lift System Description</b>    | Audi Valve Lift System        |                                                          |                           |                               |
| <b>Number of Knock Sensors</b>                   | 1                             | <b>Number of Air/Fuel Sensors</b>                        | 2                         |                               |
| <b>Air/Fuel Sensor # 1 Type</b>                  | Heated oxygen                 | <b>Air/Fuel Sensor # 1 Description</b>                   | --                        |                               |
| <b>Air/Fuel Sensor # 2 Type</b>                  | Heated oxygen                 | <b>Air/Fuel Sensor # 2 Description</b>                   | --                        |                               |
| <b>Mfr Air/Fuel Sensor Comments</b>              | --                            |                                                          |                           |                               |
| <b>Exhaust Gas Recirculation</b>                 | Yes                           | <b>Cooled Exhaust Gas Recirculation</b>                  | No                        |                               |
| <b>EGR Type</b>                                  | Variable Valve Timing Control | <b>Exhaust Gas Recirculation Description if 'Other'</b>  | --                        |                               |
| <b>Closed Loop Air Injection System</b>          | No                            |                                                          |                           |                               |
| <b>Air Injection Type</b>                        | Secondary Air Injection       | <b>Air Injection Type if 'Other'</b>                     | --                        |                               |
| <b>Mfr Engine Configuration Comments</b>         | Applies to both DXCA and DVWA |                                                          |                           |                               |

## Certification Summary Information Report

|                                                 |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
|-------------------------------------------------|-------------------------------|---------------------------------------------------------|--------------|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | VVGAJ02.0A2H                  | <b>Evaporative/Refueling Family</b>                     | VVGAR0171ADF |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 2</b>            |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 2.0                           | <b>Engine Rated Horsepower</b>                          | 268          |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Inlet Valves Per Cylinder</b>      | 2                             | <b>Number of Exhaust Valves Per Cylinder</b>            | 2            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Method</b>                    | Turbocharged                  | <b>Number of Air Aspiration Devices</b>                 | 1            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Device Configuration</b>      | Single                        | <b>Charge Air Cooler Type</b>                           | Liquid       |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Drive Method(s)</b>           | Mechanical                    |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation</b>                    | No                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Cylinder Deactivation Description</b>        | --                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing</b>                    | Yes                           |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Timing System Description</b> | Electronic / Hydraulic        |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | Yes                           |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | Audi Valve Lift System        |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 1                             | <b>Number of Air/Fuel Sensors</b>                       | 2            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 1 Type</b>                 | Heated oxygen                 | <b>Air/Fuel Sensor # 1 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 2 Type</b>                 | Heated oxygen                 | <b>Air/Fuel Sensor # 2 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Air/Fuel Sensor Comments</b>             | --                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Exhaust Gas Recirculation</b>                | Yes                           | <b>Cooled Exhaust Gas Recirculation</b>                 | No           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | Variable Valve Timing Control | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Closed Loop Air Injection System</b>         | No                            |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Injection Type</b>                       | Secondary Air Injection       | <b>Air Injection Type if 'Other'</b>                    | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Engine Configuration Comments</b>        | Applies to both DXCA and DVWA |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Official Test Numbers</b>                    |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group</b>                               | <b>Fuel</b>                   | <b>FTP</b>                                              | <b>US06</b>  | <b>SC03</b>  | <b>Cold CO</b> | <b>Highway</b> | <b>EPA City Litmus Value</b> | <b>EPA City Litmus Threshold</b> | <b>EPA Highway Litmus Value</b> | <b>EPA Highway Litmus Threshold</b> | <b>CREE Weighting Factor</b> |
| Gasoline                                        | TVGA10092282                  | TVGA10092283                                            | TVGA10092269 | TVGA10092284 | TVGA10092270   | 18.0           | 16.8                         | 25.4                             | 23.4                            | --                                  |                              |
| <b>SFTP LEV-III Official Test Numbers</b>       |                               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Test Group</b>                               | <b>Fuel</b>                   | <b>FTP</b>                                              | <b>US06</b>  | <b>SC03</b>  |                |                |                              |                                  |                                 |                                     |                              |
| Gasoline                                        | TVGA10092282                  | TVGA10092283                                            | TVGA10092269 | TVGA10092270 |                |                |                              |                                  |                                 |                                     |                              |

## Certification Summary Information Report

| <b>Test Group</b>                            | VVGAJ02.0A2H                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | VVGAR0171ADF    |      |   |                   |          |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|------|---|-------------------|----------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle ID / Configuration</b>            | SA3H-Q5-787 / 0                                                                                                                                                         | <b>Manufacturer Vehicle Configuration Number</b>      | 0               |      |   |                   |          |  |  |
| <b>Original Test Group Name</b>              | SVGAT02.0A3H                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | SVGAR0171ADF    |      |   |                   |          |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2025                                                                                                                                                                    |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Represented Test Vehicle Make</b>         | Audi                                                                                                                                                                    | <b>Represented Test Vehicle Model</b>                 | Q5 TFSI quattro |      |   |                   |          |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --              |      |   |                   |          |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table> | Drive Source and Fuel#                                | Drive Source    | Fuel | 1 | Combustion Engine | Gasoline |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                 |      |   |                   |          |  |  |
| 1                                            | Combustion Engine                                                                                                                                                       | Gasoline                                              |                 |      |   |                   |          |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --              |      |   |                   |          |  |  |
| <b>Fuel Cell Indicator</b>                   | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | --              |      |   |                   |          |  |  |
| <b>Rechargeable Energy Storage System</b>    | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System, if 'Other'</b> | --              |      |   |                   |          |  |  |
| <b>Off-board charge Capable Indicator</b>    | --                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction -- Initial</b>        | 0                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1.0067          |      |   |                   |          |  |  |
| <b>Odometer Correction Sign</b>              | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction Units</b>             | Kilometers                                                                                                                                                              |                                                       |                 |      |   |                   |          |  |  |
| <b>Engine Code</b>                           | DXCA                                                                                                                                                                    | <b>Rated Horsepower</b>                               | 268             |      |   |                   |          |  |  |
| <b>Displacement (liters)</b>                 | 2                                                                                                                                                                       |                                                       |                 |      |   |                   |          |  |  |
| <b>Air Aspiration Method</b>                 | Turbocharged                                                                                                                                                            | <b>Air Aspiration Method, if 'Other'</b>              |                 |      |   |                   |          |  |  |
| <b>Number of Air Aspiration Devices</b>      | 1                                                                                                                                                                       | <b>Air Aspiration Device Configuration</b>            | Single          |      |   |                   |          |  |  |
| <b>Charge Air Cooler Type</b>                | Air                                                                                                                                                                     | <b>Drive Mode While Testing</b>                       | All Wheel Drive |      |   |                   |          |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)      |      |   |                   |          |  |  |
| <b>Curb Weight (lbs)</b>                     | 4464                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 4750            |      |   |                   |          |  |  |
| <b>GVWR (lbs)</b>                            | 5500                                                                                                                                                                    | <b>N/V Ratio</b>                                      | 26.4            |      |   |                   |          |  |  |
| <b>Axle Ratio</b>                            | 5.3                                                                                                                                                                     |                                                       |                 |      |   |                   |          |  |  |
| <b>Transmission Type</b>                     | Automated Manual- Selectable (e.g. Automated Manual with paddles)                                                                                                       | <b># of Transmission Gears</b>                        | 7               |      |   |                   |          |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No              |      |   |                   |          |  |  |

## Certification Summary Information Report

|                   |               |                                     |              |
|-------------------|---------------|-------------------------------------|--------------|
| <b>Test Group</b> | VVG AJ02.0A2H | <b>Evaporative/Refueling Family</b> | VVGAR0171ADF |
|-------------------|---------------|-------------------------------------|--------------|

**Dynamometer Coefficients:**

| Coefficient Category | Target Coefficients |             |                | Set Coefficients |             |                | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|-------------------------------------------------------------------------------|
|                      | A (lbf)             | B (lbf/mph) | C (lbf/mph**2) | A (lbf)          | B (lbf/mph) | C (lbf/mph**2) |                                                                               |
| City/Highway/Evap    | 49.2                | -0.1428     | 0.02901        | 6.22             | -0.3878     | 0.02945        | 15.3                                                                          |
| Cold CO              | 54.12               | -0.1571     | 0.03191        | -0.86            | -0.2838     | 0.03066        | N/A                                                                           |
| US06                 | 49.2                | -0.1428     | 0.02901        | 6.22             | -0.3878     | 0.02945        | N/A                                                                           |

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| <b>Emission Control Device Comments</b>   | DFI/AIR/TC/CAC/TWC(2)/GPF/WR-HO2S/HO2S       |
| <b>Manufacturer Test Vehicle Comments</b> | MY25 Audi Q5 TFSI quattro EVAP EDV, ETW 4750 |

|                                                |                                            |                                       |                                                    |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>SVGA10089085</b>                        | <b>Test Procedure</b>                 | <b>23 - 2-day evap</b>                             |
| <b>Exhaust Test # for this Evap Test</b>       | SVGA10089081                               | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 11/29/2024                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | NK0022                                     | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Neckarsulm                         |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5146                                       | <b>Odometer Units</b>                 | K                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                        | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                         |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | --                                         | <b>Road Speed Fan Usage</b>           | --                                                 |

**Test Results**

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|-----------------------------------------------------------|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.165                 | --                                    |

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| <b>Manufacturer Test Comments</b> | MY25 Audi Q5 TFSI quattro Evap 2DD 4k |
|-----------------------------------|---------------------------------------|

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.1650         | 0.0751 | 0.240               | 0.375    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.1650         | 0.0751 | 0.240               | 0.375    | Pass      |

## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                               | Evaporative/Refueling Family          | VVGAR0171ADF                                       |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>SVGA10089087</b>                        | <b>Test Procedure</b>                 | <b>34 - Federal fuel 3-day evap</b>                |
| <b>Exhaust Test # for this Evap Test</b>       | SVGA10089082                               | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 12/04/2024                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | NK0022                                     | <b>Fuel Calibration Number</b>        | 1                                                  |
| <b>Vehicle Class</b>                           | N/A                                        | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Neckarsulm                         |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Calculated (1.08 x FID Total Hydrocarbons) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5253                                       | <b>Odometer Units</b>                 | K                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                        | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                         |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | --                                         | <b>Road Speed Fan Usage</b>           | --                                                 |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|-----------------------------------------------------------|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.252                 | --                                    |

## Manufacturer Test Comments

MY25 Audi Q5 TFSI quattro Evap 3DD 4k

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.2520         | 0.0313 | 0.283               | 0.375    | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.2520         | 0.0313 | 0.283               | 0.375    | Pass      |



Certification Summary Information Report

|                                         |                                            |                                |                                                    |
|-----------------------------------------|--------------------------------------------|--------------------------------|----------------------------------------------------|
| Test Group                              | VVGAJ02.0A2H                               | Evaporative/Refueling Family   | VVGAR0171ADF                                       |
| Test #                                  | SVGA10089086                               | Test Procedure                 | 32 - Federal Fuel Running Loss                     |
| Exhaust Test # for this Evap Test       | SVGA10089082                               | Test Fuel Type                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| Test Date                               | 12/04/2024                                 | Fuel                           | Gasoline                                           |
| Fuel Batch ID                           | NK0022                                     | Fuel Calibration Number        | 1                                                  |
| Vehicle Class                           | N/A                                        | DF Type                        | Mfr. Determined                                    |
| Verify Test Lab ID                      | AUDI AG Neckarsulm                         |                                |                                                    |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) |                                |                                                    |
| Test Start Odometer Reading             | 5225                                       | Odometer Units                 | K                                                  |
| 4WD Test Dyno                           | Yes                                        | Diesel Adjustment Factor Usage | --                                                 |
| State of Charge Delta                   | --                                         |                                |                                                    |
| Drive Cycle Speed Tolerance Criteria    | --                                         | Road Speed Fan Usage           | --                                                 |

Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value |
|-----------------------------------------------------------|-----------------------|---------------------------------------|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0001                | --                                    |

Manufacturer Test Comments MY25 Audi Q5 TFSI quattro Evap RL 4k

| Certification Region | Useful Life   | Standard Level                         | Emission Name  | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|----------------------------------------|----------------|----------------|--------|---------------------|----------|-----------|
| Fed                  | 150,000 miles | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV | 0.000          | 0.000  | 0.00                | 0.05     | Pass      |
| CA                   | 150,000 miles | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.000          | 0.000  | 0.00                | 0.01     | Pass      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                          | VVGAJ02.0A2H                                                      | <b>Evaporative/Refueling Family</b>    | VVGAR0171ADF                                       |                       |                       |                                       |                                                           |                  |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|-----------------------|-----------------------|---------------------------------------|-----------------------------------------------------------|------------------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                              | <b>SVGA10089088</b>                                               | <b>Test Procedure</b>                  | <b>24 - Federal fuel refueling test (ORVR)</b>     |                       |                       |                                       |                                                           |                  |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                   | SVGA10089083                                                      | <b>Test Fuel Type</b>                  | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |                       |                       |                                       |                                                           |                  |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                           | 12/11/2024                                                        | <b>Fuel</b>                            | Gasoline                                           |                       |                       |                                       |                                                           |                  |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                       | NK0022                                                            | <b>Fuel Calibration Number</b>         | 1                                                  |                       |                       |                                       |                                                           |                  |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                       | N/A                                                               | <b>DF Type</b>                         | Mfr. Determined                                    |                       |                       |                                       |                                                           |                  |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                  | AUDI AG Neckarsulm                                                |                                        |                                                    |                       |                       |                                       |                                                           |                  |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                             | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                        |                                                    |                       |                       |                                       |                                                           |                  |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                         | 5312                                                              | <b>Odometer Units</b>                  | K                                                  |                       |                       |                                       |                                                           |                  |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                       | Yes                                                               | <b>Diesel Adjustment Factor Usage</b>  | --                                                 |                       |                       |                                       |                                                           |                  |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                               | --                                                                |                                        |                                                    |                       |                       |                                       |                                                           |                  |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                | --                                                                | <b>Road Speed Fan Usage</b>            | --                                                 |                       |                       |                                       |                                                           |                  |    |
| <b>Test Results</b>                                                                                                                                                                                                                                                                        |                                                                   |                                        |                                                    |                       |                       |                                       |                                                           |                  |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0123</td> <td>--</td> </tr> </tbody> </table> |                                                                   |                                        |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0123           | -- |
| Test Result Name                                                                                                                                                                                                                                                                           | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value  |                                                    |                       |                       |                                       |                                                           |                  |    |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                                  | 0.0123                                                            | --                                     |                                                    |                       |                       |                                       |                                                           |                  |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                          |                                                                   |                                        |                                                    |                       |                       |                                       |                                                           |                  |    |
| MY25 Audi Q5 TFSI quattro Evap ORVR 4k                                                                                                                                                                                                                                                     |                                                                   |                                        |                                                    |                       |                       |                                       |                                                           |                  |    |
| <b>Certification Region</b>                                                                                                                                                                                                                                                                | <b>Useful Life</b>                                                | <b>Standard Level</b>                  | <b>Emission Name</b>                               | <b>Rounded Result</b> | <b>Add DF</b>         | <b>Certification Level</b>            | <b>Standard</b>                                           | <b>Pass/Fail</b> |    |
| Fed                                                                                                                                                                                                                                                                                        | 150,000 miles                                                     | Federal Tier 3 Evap                    | HC-TOTAL-EQUIV                                     | 0.012                 | 0.000                 | 0.01                                  | 0.20                                                      | Pass             |    |
| CA                                                                                                                                                                                                                                                                                         | 150,000 miles                                                     | California LEV-IV Zero Evap (Option 2) | HC-TOTAL-EQUIV                                     | 0.012                 | 0.000                 | 0.01                                  | 0.20                                                      | Pass             |    |

|                                                           |                                                                                                                                                                                                                                    |                                       |                                                    |                  |                       |                                       |                                                           |        |    |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------|------------------|-----------------------|---------------------------------------|-----------------------------------------------------------|--------|----|
| Test Group                                                | VVGAJ02.0A2H                                                                                                                                                                                                                       | Evaporative/Refueling Family          | VVGAR0171ADF                                       |                  |                       |                                       |                                                           |        |    |
| Test #                                                    | SVGA10089089                                                                                                                                                                                                                       | Test Procedure                        | 65 - Evap Canister Bleed Test                      |                  |                       |                                       |                                                           |        |    |
| Exhaust Test # for this Evap Test                         | --                                                                                                                                                                                                                                 | Test Fuel Type                        | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                  |                       |                                       |                                                           |        |    |
| Test Date                                                 | 06/03/2024                                                                                                                                                                                                                         | Fuel                                  | N/A                                                |                  |                       |                                       |                                                           |        |    |
| Fuel Batch ID                                             | WB0024                                                                                                                                                                                                                             | Fuel Calibration Number               | 1                                                  |                  |                       |                                       |                                                           |        |    |
| Vehicle Class                                             | N/A                                                                                                                                                                                                                                | DF Type                               | Mfr. Determined                                    |                  |                       |                                       |                                                           |        |    |
| Verify Test Lab ID                                        | Volkswagen AG WOB2                                                                                                                                                                                                                 |                                       |                                                    |                  |                       |                                       |                                                           |        |    |
| E10 Evaporative Test Measurement Method                   | Actual Total Hydrocarbon Equivalent Measurement (with speciation)                                                                                                                                                                  |                                       |                                                    |                  |                       |                                       |                                                           |        |    |
| Test Start Odometer Reading                               | 4000                                                                                                                                                                                                                               | Odometer Units                        | M                                                  |                  |                       |                                       |                                                           |        |    |
| 4WD Test Dyno                                             | Yes                                                                                                                                                                                                                                | Diesel Adjustment Factor Usage        | --                                                 |                  |                       |                                       |                                                           |        |    |
| State of Charge Delta                                     | --                                                                                                                                                                                                                                 |                                       |                                                    |                  |                       |                                       |                                                           |        |    |
| Drive Cycle Speed Tolerance Criteria                      | --                                                                                                                                                                                                                                 | Road Speed Fan Usage                  | --                                                 |                  |                       |                                       |                                                           |        |    |
| Test Results                                              |                                                                                                                                                                                                                                    |                                       |                                                    |                  |                       |                                       |                                                           |        |    |
|                                                           | <table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.0103</td><td>--</td></tr></table> |                                       |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0103 | -- |
| Test Result Name                                          | Unrounded Test Result                                                                                                                                                                                                              | Verify Calculated FE Equivalent Value |                                                    |                  |                       |                                       |                                                           |        |    |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0103                                                                                                                                                                                                                             | --                                    |                                                    |                  |                       |                                       |                                                           |        |    |
| Manufacturer Test Comments                                | MY25 Audi Q5 TFSI quattro Evap BETP 4k                                                                                                                                                                                             |                                       |                                                    |                  |                       |                                       |                                                           |        |    |

## Certification Summary Information Report

| <b>Test Group</b>                            | VVGAJ02.0A2H                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | VVGAR0171ADF    |      |   |                   |          |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|------|---|-------------------|----------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle ID / Configuration</b>            | TA2H-Q5-531 / 0                                                                                                                                                         | <b>Manufacturer Vehicle Configuration Number</b>      | 0               |      |   |                   |          |  |  |
| <b>Original Test Group Name</b>              | TVGAJ02.0A2H                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | TVGAR0171ADF    |      |   |                   |          |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2026                                                                                                                                                                    |                                                       |                 |      |   |                   |          |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Represented Test Vehicle Make</b>         | Audi                                                                                                                                                                    | <b>Represented Test Vehicle Model</b>                 | Q5 TFSI quattro |      |   |                   |          |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --              |      |   |                   |          |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                 |      |   |                   |          |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table> | Drive Source and Fuel#                                | Drive Source    | Fuel | 1 | Combustion Engine | Gasoline |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                 |      |   |                   |          |  |  |
| 1                                            | Combustion Engine                                                                                                                                                       | Gasoline                                              |                 |      |   |                   |          |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --              |      |   |                   |          |  |  |
| <b>Fuel Cell Indicator</b>                   | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | --              |      |   |                   |          |  |  |
| <b>Rechargeable Energy Storage System</b>    | --                                                                                                                                                                      | <b>Rechargeable Energy Storage System, if 'Other'</b> | --              |      |   |                   |          |  |  |
| <b>Off-board charge Capable Indicator</b>    | --                                                                                                                                                                      |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction -- Initial</b>        | 0                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1.0053          |      |   |                   |          |  |  |
| <b>Odometer Correction Sign</b>              | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor                                                                         |                                                       |                 |      |   |                   |          |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                 |      |   |                   |          |  |  |
| <b>Engine Code</b>                           | DXCA                                                                                                                                                                    | <b>Rated Horsepower</b>                               | 268             |      |   |                   |          |  |  |
| <b>Displacement (liters)</b>                 | 2                                                                                                                                                                       |                                                       |                 |      |   |                   |          |  |  |
| <b>Air Aspiration Method</b>                 | Turbocharged                                                                                                                                                            | <b>Air Aspiration Method, if 'Other'</b>              |                 |      |   |                   |          |  |  |
| <b>Number of Air Aspiration Devices</b>      | 1                                                                                                                                                                       | <b>Air Aspiration Device Configuration</b>            | Single          |      |   |                   |          |  |  |
| <b>Charge Air Cooler Type</b>                | Liquid                                                                                                                                                                  | <b>Drive Mode While Testing</b>                       | All Wheel Drive |      |   |                   |          |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)      |      |   |                   |          |  |  |
| <b>Curb Weight (lbs)</b>                     | 4486                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 4750            |      |   |                   |          |  |  |
| <b>GVWR (lbs)</b>                            | 5523                                                                                                                                                                    | <b>N/V Ratio</b>                                      | 26.4            |      |   |                   |          |  |  |
| <b>Axle Ratio</b>                            | 5.3                                                                                                                                                                     |                                                       |                 |      |   |                   |          |  |  |
| <b>Transmission Type</b>                     | Automated Manual- Selectable (e.g. Automated Manual with paddles)                                                                                                       | <b># of Transmission Gears</b>                        | 7               |      |   |                   |          |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No              |      |   |                   |          |  |  |

Certification Summary Information Report

| Test Group                         |         | VVGAJ02.0A2H |                |                  | Evaporative/Refueling Family |                | VVGAR0171ADF                                                                     |
|------------------------------------|---------|--------------|----------------|------------------|------------------------------|----------------|----------------------------------------------------------------------------------|
| Dynamometer Coefficients:          |         |              |                |                  |                              |                |                                                                                  |
| Target Coefficients                |         |              |                | Set Coefficients |                              |                | EPA Calculated Total Road Load Horse Power for<br>City/Highway/Evap Coefficients |
| Coefficient<br>Category            | A (lbf) | B (lbf/mph)  | C (lbf/mph**2) | A (lbf)          | B (lbf/mph)                  | C (lbf/mph**2) |                                                                                  |
| City/Highway/Evap                  | 49.2    | -0.1428      | 0.02901        | -1.58            | 0.099                        | 0.02515        | 15.3                                                                             |
| Cold CO                            | 54.12   | -0.1571      | 0.03191        | -5.43            | -0.2059                      | 0.02927        | N/A                                                                              |
| US06                               | 49.2    | -0.1428      | 0.02901        | -1.58            | 0.099                        | 0.02515        | N/A                                                                              |
| Emission Control Device Comments   |         | --           |                |                  |                              |                |                                                                                  |
| Manufacturer Test Vehicle Comments |         | E10 & E0     |                |                  |                              |                |                                                                                  |

## Certification Summary Information Report

| Test Group                              | VVGAJ02.0A2H                              | Evaporative/Refueling Family   | VVGAR0171ADF                                       |
|-----------------------------------------|-------------------------------------------|--------------------------------|----------------------------------------------------|
| Test #                                  | TVGA10092282                              | Test Procedure                 | 21 - Federal fuel 2-day exhaust (w/can load)       |
| Exhaust Test # for this Evap Test       | --                                        | Test Fuel Type                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| Test Date                               | 07/15/2025                                | Fuel                           | Gasoline                                           |
| Fuel Batch ID                           | IG0045                                    | Fuel Calibration Number        | 9                                                  |
| Vehicle Class                           | LDV/Passenger Car                         | DF Type                        | Mfr. Determined                                    |
| Verify Test Lab ID                      | AUDI AG Ingolstadt                        |                                |                                                    |
| E10 Evaporative Test Measurement Method | --                                        |                                |                                                    |
| Test Start Odometer Reading             | 3150                                      | Odometer Units                 | M                                                  |
| 4WD Test Dyno                           | Yes                                       | Diesel Adjustment Factor Usage | --                                                 |
| State of Charge Delta                   | --                                        |                                |                                                    |
| Drive Cycle Speed Tolerance Criteria    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage           | Yes                                                |
| Test Results                            |                                           |                                |                                                    |

## Certification Summary Information Report

| Test Group                                                                                   | VVG AJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Evaporative/Refueling Family                                                                                                                                                                      | VVGAR0171ADF                                             |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|--------|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|---|----|----------------------------------------------|---|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|---|----|-------------------------|-----------|----|----------------------|-----------|----|----------------------------------------------------|----------|----|--------------------------------------------|-----------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|-----------|----|---------------------|----------|----|---------------------------------|-----------|----|----------------------------------|--------|----|-------------------------|-----------|----|------------------------------|-----------|----|--|--|
|                                                                                              | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>392.1391964</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.3269</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>22.1822887</td><td>22.1822887</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0061</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0234</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>428.8325615</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0073</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>20.3145444</td><td>20.3145444</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>354.3101173</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0238</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>24.5851649</td><td>24.5851649</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0013</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0016218</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0780552</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.479132</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.9847868</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.340643</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>21.7</td><td>21.7</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0066988</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.000963</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0044009</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0044</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0002868</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0059093</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                  | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 392.1391964                      | --          | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.3269 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 22.1822887 | 22.1822887 | CH4 BAG 1 (Bag 1 Methane) | 0.0061 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0234 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 428.8325615 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.0073 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 20.3145444 | 20.3145444 | CH4 BAG 2 (Bag 2 Methane) | 0 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 354.3101173 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.0238 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 24.5851649 | 24.5851649 | CH4 BAG 3 (Bag 3 Methane) | 0.0013 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0 | -- | METHANE (CH4 - Methane) | 0.0016218 | -- | CO (Carbon Monoxide) | 0.0780552 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.479132 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.9847868 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 2.340643 | -- | MFR FE (Manufacturer Fuel Economy) | 21.7 | 21.7 | NOX (Nitrogen Oxide) | 0.0066988 | -- | N2O (Nitrous Oxide) | 0.000963 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0044009 | -- | NMOG (Non-methane organic gases) | 0.0044 | -- | PM (Particulate Matter) | 0.0002868 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0059093 | -- |  |  |
|                                                                                              | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 392.1391964                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.3269                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22.1822887                                                                                                                                                                                        | 22.1822887                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0061                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0234                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 428.8325615                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0073                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20.3145444                                                                                                                                                                                        | 20.3145444                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 354.3101173                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0238                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.5851649                                                                                                                                                                                        | 24.5851649                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0013                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                 | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0016218                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0780552                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.479132                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.9847868                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.340643                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 21.7                                                                                                                                                                                              | 21.7                                                     |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0066988                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000963                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0044009                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0044                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0002868                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0059093                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>401</td><td>401</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 401         | 401                              |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                             | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 401                                                                                                                                                                                               | 401                                                      |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>400.7540148</td><td>--</td></tr></table>                      | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 400.7540148 | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Test Result Name                                                                             | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Verify Calculated CO2                                                                                                                                                                             |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Carbon dioxide                                                                               | 400.7540148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                                                                                                                                |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Manufacturer Test Comments                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                   |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Lab Comments: kein Kommentar!; VeCeD: FTP Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                   |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |          |    |                                 |           |    |                                  |        |    |                         |           |    |                              |           |    |  |  |

Manufacturer Test Comments

Lab Comments: kein Kommentar!; VeCeD: FTP Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3

## Certification Summary Information Report

| Test Group           |               | VVG AJ02.0A2H             |               |                | Evaporative/Refueling Family |                  |                          |        |         | VVG AR0171ADF       |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | CREE          | 401            | --                           | --               | --                       | 0.3900 | --      | 401                 | --       | --        |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | METHANE       | 0.0016         | --                           | --               | --                       | 0.0014 | --      | 0.003               | 0.030    | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | N2O           | 0.0010         | --                           | --               | --                       | 0.0005 | --      | 0.002               | 0.010    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO            | 0.08           | --                           | --               | --                       | 0.3000 | --      | 0.4                 | 1.0      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO-COMP       | 0.39           | --                           | --               | --                       | --     | --      | 0.4                 | 4.2      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0044         | --                           | 1.099            | --                       | 0.0044 | --      | 0.009               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0111         | --                           | --               | --                       | --     | --      | 0.018               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX-COMP | 0.0162         | --                           | --               | --                       | --     | --      | 0.016               | 0.040    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0067         | --                           | --               | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | PM            | 0.0003         | --                           | --               | --                       | 0.0001 | --      | 0.000               | 0.003    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | CO            | 0.08           | --                           | --               | --                       | 0.3000 | --      | 0.4                 | 1.0      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0044         | --                           | 1.099            | --                       | 0.0044 | --      | 0.009               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0111         | --                           | --               | --                       | --     | --      | 0.018               | 0.025    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0067         | --                           | --               | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | PM            | 0.0003         | --                           | --               | --                       | 0.0001 | --      | 0.000               | 0.001    | Pass      |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**



## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADF                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092284</b>                       | <b>Test Procedure</b>                 | <b>11 - Cold CO</b>                                |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/25/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3311                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |
| <b>Test Results</b>                            |                                           |                                       |                                                    |

## Certification Summary Information Report

| Test Group                 | VVGAJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Evaporative/Refueling Family                                                                                                                                                                     | VVGAR0171ADF                                             |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|--------|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|---|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|---|----|-------------------------|-----------|----|----------------------|-----------|----|----------------------------------------------------|-----------|----|--------------------------------------------|------------|----|-------------------------------------------------|-----------|----|------------------------------------|------|------|----------------------|---------|----|---------------------|-----------|----|---------------------------------|-----------|----|----------------------------------|--------|----|------------------------------|-----------|----|--|--|
|                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>465.968818</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>1.0368</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>18.6057199</td><td>18.6057199</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0249</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.2031</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>464.3831314</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0046</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>18.7595856</td><td>18.7595856</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0001</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>381.9998464</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0269</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>22.8029339</td><td>22.8029339</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0016</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0056588</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.2247515</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.7689559</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.0701842</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.9774986</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>19.7</td><td>19.7</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.01266</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0012204</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0382272</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0382</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0435613</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                 | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 465.968818                       | --          | CO BAG 1 (Bag 1 Carbon Monoxide) | 1.0368 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 18.6057199 | 18.6057199 | CH4 BAG 1 (Bag 1 Methane) | 0.0249 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.2031 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 464.3831314 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.0046 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 18.7595856 | 18.7595856 | CH4 BAG 2 (Bag 2 Methane) | 0.0001 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 381.9998464 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.0269 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 22.8029339 | 22.8029339 | CH4 BAG 3 (Bag 3 Methane) | 0.0016 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0 | -- | METHANE (CH4 - Methane) | 0.0056588 | -- | CO (Carbon Monoxide) | 0.2247515 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.7689559 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.0701842 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.9774986 | -- | MFR FE (Manufacturer Fuel Economy) | 19.7 | 19.7 | NOX (Nitrogen Oxide) | 0.01266 | -- | N2O (Nitrous Oxide) | 0.0012204 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0382272 | -- | NMOG (Non-methane organic gases) | 0.0382 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0435613 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 465.968818                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.0368                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18.6057199                                                                                                                                                                                       | 18.6057199                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0249                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.2031                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 464.3831314                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0046                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18.7595856                                                                                                                                                                                       | 18.7595856                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0001                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 381.9998464                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0269                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22.8029339                                                                                                                                                                                       | 22.8029339                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0016                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0056588                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.2247515                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.7689559                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -0.0701842                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.9774986                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19.7                                                                                                                                                                                             | 19.7                                                     |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.01266                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.0012204                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0382272                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0382                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0435613                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>442</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 442         | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 442                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>442.0489772</td><td>--</td></tr></table>                     | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 442.0489772 | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Test Result Name           | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Verify Calculated CO2                                                                                                                                                                            |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Carbon dioxide             | 442.0489772                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Manufacturer Test Comments | Lab Comments: kein Kommentar!; VeCeD: COLDCO Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |   |    |                         |           |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |           |    |                                    |      |      |                      |         |    |                     |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |

Certification Summary Information Report

| Test Group           |               | VVGAJ02.0A2H              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VVGAR0171ADF        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 50,000 miles  | Federal Tier 3 Bin 30     | CO            | 0.22           | --                           | --               | --                       | 0.1000 | --      | 0.3                 | 10.0     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | HC-NM         | 0.04           | --                           | --               | --                       | 0.0032 | --      | 0.0                 | 0.3      | Pass      |
| CA                   | 50,000 miles  | California LEV-IV SULEV25 | CO            | 0.22           | --                           | --               | --                       | 0.1000 | --      | 0.3                 | 10.0     | Pass      |

## Certification Summary Information Report

|                                                |                                           |                                       |                                                    |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VVG AJ02.0A2H                             | <b>Evaporative/Refueling Family</b>   | VVGAR0171ADF                                       |
| <b>Test #</b>                                  | <b>TVGA10092285</b>                       | <b>Test Procedure</b>                 | <b>49 - Quick-Driveway (QD)</b>                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/30/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3365                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 405.5113966           | --                                                       |
| CO BAG 1 (Bag 1 Carbon Monoxide)                   | 0.5708                | --                                                       |
| CH4 BAG 1 (Bag 1 Methane)                          | 0.0096                | --                                                       |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)       | 0.008588              | --                                                       |
| METHANE (CH4 - Methane)                            | 0.009568              | --                                                       |
| CO (Carbon Monoxide)                               | 0.5707954             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.9709169             | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.4875393             | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 1.542342              | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 21.4                  | 21.4                                                     |
| NOX (Nitrogen Oxide)                               | 0.008142              | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0054411             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0402504             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.008588              | --                                                       |
| PM (Particulate Matter)                            | 0                     | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0496439             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 407                   | --                              |

## Certification Summary Information Report

| Test Group                 |               | VVG AJ02.0A2H             |               |                                                                                          |     | Evaporative/Refueling Family |                          |        |         | VVGAR0171ADF        |          |           |
|----------------------------|---------------|---------------------------|---------------|------------------------------------------------------------------------------------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                            |               | Test Result Name          |               | Unrounded Test Result                                                                    |     | Verify Calculated CO2        |                          |        |         |                     |          |           |
|                            |               | Carbon dioxide            |               | 405.5113966                                                                              |     | --                           |                          |        |         |                     |          |           |
| Manufacturer Test Comments |               |                           |               | Lab Comments: kein Kommentar!; VeCeD: Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3 |     |                              |                          |        |         |                     |          |           |
| Certification Region       | Useful Life   | Standard Level            | Emission Name | Rounded Result                                                                           | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0086                                                                                   | --  | 1.099                        | --                       | 0.0044 | --      | 0.013               | 99.999   | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0167                                                                                   | --  | --                           | --                       | --     | --      | 0.024               | 0.042    | Pass      |
| Fed                        | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0081                                                                                   | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0086                                                                                   | --  | 1.099                        | --                       | 0.0044 | --      | 0.013               | 99.999   | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0167                                                                                   | --  | --                           | --                       | --     | --      | 0.024               | 0.037    | Pass      |
| CA                         | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0081                                                                                   | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |

## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADF                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092286</b>                       | <b>Test Procedure</b>                 | <b>52 - Fed. fuel 50 F exh.</b>                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 08/19/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3698                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |
| <b>Test Results</b>                            |                                           |                                       |                                                    |

## Certification Summary Information Report

| Test Group                       | VVGAJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Evaporative/Refueling Family                                                                                                                                                                     | VVGAR0171ADF                                             |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
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|                                  | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>411.2865276</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.5197</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>21.1297402</td><td>21.1297402</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0138</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0561</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>439.8568898</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0003</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>19.8058944</td><td>19.8058944</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>364.0722371</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0156</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>23.9267157</td><td>23.9267157</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0017</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0001</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0033473</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1120827</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.423362</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.6978477</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.509813</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>21.1</td><td>21.1</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0089414</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0105779</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0106</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0138482</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                 | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 411.2865276                      | --  | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.5197 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 21.1297402 | 21.1297402 | CH4 BAG 1 (Bag 1 Methane) | 0.0138 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0561 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 439.8568898 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.0003 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 19.8058944 | 19.8058944 | CH4 BAG 2 (Bag 2 Methane) | 0 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 364.0722371 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.0156 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 23.9267157 | 23.9267157 | CH4 BAG 3 (Bag 3 Methane) | 0.0017 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0.0001 | -- | METHANE (CH4 - Methane) | 0.0033473 | -- | CO (Carbon Monoxide) | 0.1120827 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.423362 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.6978477 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 2.509813 | -- | MFR FE (Manufacturer Fuel Economy) | 21.1 | 21.1 | NOX (Nitrogen Oxide) | 0.0089414 | -- | HC-NM (Non-methane Hydrocarbon) | 0.0105779 | -- | NMOG (Non-methane organic gases) | 0.0106 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0138482 | -- |  |  |
|                                  | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 411.2865276                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.5197                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 21.1297402                                                                                                                                                                                       | 21.1297402                                               |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0138                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0561                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 439.8568898                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0003                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19.8058944                                                                                                                                                                                       | 19.8058944                                               |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 364.0722371                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0156                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 23.9267157                                                                                                                                                                                       | 23.9267157                                               |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0017                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0001                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0033473                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.1120827                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.423362                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.6978477                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.509813                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 21.1                                                                                                                                                                                             | 21.1                                                     |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0089414                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0105779                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0106                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0138482                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>413</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 413 | --                               |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Test Result Name                 | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Verify Calculated CREE/OPT-CREE                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Carbon-Related Exhaust Emissions | 413                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
|                                  | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>413.1263297</td><td>--</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Test Result Name                                                                                                                                                                                 | Unrounded Test Result                                    | Verify Calculated CO2                                    | Carbon dioxide                   | 413.1263297                      | --  |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Test Result Name                 | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Verify Calculated CO2                                                                                                                                                                            |                                                          |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Carbon dioxide                   | 413.1263297                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |
| Manufacturer Test Comments       | Lab Comments: kein Kommentar!; VeCeD: 50FTP Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |     |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |   |    |                                              |   |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |        |    |                         |           |    |                      |           |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |           |    |                                 |           |    |                                  |        |    |                              |           |    |  |  |

Certification Summary Information Report

| Test Group           |             | VVGAJ02.0A2H              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VVGAR0171ADF        |          |           |
|----------------------|-------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| CA                   | 4,000 miles | California LEV-IV SULEV25 | CO            | 0.11           | --                           | --               | --                       | --     | --      | 0.1                 | 1.0      | Pass      |
| CA                   | 4,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0106         | --                           | 1.099            | --                       | --     | --      | 0.011               | 99.999   | Pass      |
| CA                   | 4,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.01954        | --                           | --               | --                       | --     | --      | 0.020               | 0.050    | Pass      |
| CA                   | 4,000 miles | California LEV-IV SULEV25 | NOX           | 0.00894        | --                           | --               | --                       | --     | --      | 0.0089              | 99.9990  | Pass      |



## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADF                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092270</b>                       | <b>Test Procedure</b>                 | <b>3 - HWFE</b>                                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/30/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3368                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0.0001052             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0278904             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 2.105093              | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.6291797             | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 2.568537              | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 34.6                  | 34.6                                                     |
| NOX (Nitrogen Oxide)                               | 0.0013949             | --                                                       |
| N2O (Nitrous Oxide)                                | 0                     | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0001512             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0002                | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0002545             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 252                   | 252                             |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 252.2168745           | --                    |

## Manufacturer Test Comments

Lab Comments: kein Kommentar!; VeCeD: HWY Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3

## Certification Summary Information Report

| Test Group           |               | VVGAJ02.0A2H              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VVGAR0171ADF        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 120,000 miles | Federal Tier 3 Bin 30     | CREE          | 252            | --                           | --               | --                       | 0.3900 | --      | 252                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0002         | --                           | 1.0300           | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG+NOX      | 0.0016         | --                           | --               | --                       | --     | --      | 0.009               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0014         | --                           | --               | --                       | 0.0027 | --      | 0.004               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0002         | --                           | 1.0300           | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0016         | --                           | --               | --                       | --     | --      | 0.009               | 0.025    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0014         | --                           | --               | --                       | 0.0027 | --      | 0.004               | 99.999   | Pass      |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

| Test Group                                     | VVGAJ02.0A2H                              | Evaporative/Refueling Family          | VVGAR0171ADF                                       |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TVGA10092283</b>                       | <b>Test Procedure</b>                 | <b>90 - US06</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/15/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3182                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |
| <b>Test Results</b>                            |                                           |                                       |                                                    |

## Certification Summary Information Report

| Test Group                 | VVG AJ02.0A2H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Evaporative/Refueling Family                                                                                                                                                                     | VVGAR0171ADF                                             |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------------|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|-------|----|----------------------------------------------|--------|----|----------------------------------|-------------|----|----------------------------------|--------|----|-------------------------------|------------|------------|---------------------------|--------|----|----------------------------------------------|-------|----|-------------------------|----------|----|----------------------|-----------|----|----------------------------------------------------|-----------|----|--------------------------------------------|------------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|-----------|----|---------------------|-----------|----|---------------------------------|----------|----|----------------------------------|--------|----|-------------------------|-----------|----|------------------------------|-----------|----|--|--|
|                            | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>576.6746262</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.0167</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>15.1060341</td><td>15.1060341</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.001</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0014</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>318.9085726</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.1451</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>27.2973611</td><td>27.2973611</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0012</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.001</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.001162</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1166986</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.2666909</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.3341222</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.086662</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>23.2</td><td>23.2</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0062737</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0000188</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.001074</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0011</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0002354</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0021986</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                 | Unrounded Test Result                                    | Verify Calculated FE Equivalent Value (miles per gallon) | CO2 BAG 1 (Bag 1 Carbon Dioxide) | 576.6746262                      | --          | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.0167 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 15.1060341 | 15.1060341 | CH4 BAG 1 (Bag 1 Methane) | 0.001 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0014 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 318.9085726 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.1451 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 27.2973611 | 27.2973611 | CH4 BAG 2 (Bag 2 Methane) | 0.0012 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0.001 | -- | METHANE (CH4 - Methane) | 0.001162 | -- | CO (Carbon Monoxide) | 0.1166986 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.2666909 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.3341222 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 1.086662 | -- | MFR FE (Manufacturer Fuel Economy) | 23.2 | 23.2 | NOX (Nitrogen Oxide) | 0.0062737 | -- | N2O (Nitrous Oxide) | 0.0000188 | -- | HC-NM (Non-methane Hydrocarbon) | 0.001074 | -- | NMOG (Non-methane organic gases) | 0.0011 | -- | PM (Particulate Matter) | 0.0002354 | -- | HC-TOTAL (Total Hydrocarbon) | 0.0021986 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 576.6746262                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0167                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15.1060341                                                                                                                                                                                       | 15.1060341                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.001                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0014                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 318.9085726                                                                                                                                                                                      | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.1451                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 27.2973611                                                                                                                                                                                       | 27.2973611                                               |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.0012                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.001                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.001162                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.1166986                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.2666909                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -0.3341222                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.086662                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23.2                                                                                                                                                                                             | 23.2                                                     |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0062737                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | N2O (Nitrous Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0000188                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.001074                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0011                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0002354                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0021986                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>376</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 376         | --                               |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 376                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>375.9892684</td><td>--</td></tr></table>                     | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 375.9892684 | --                               |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Test Result Name           | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Verify Calculated CO2                                                                                                                                                                            |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Carbon dioxide             | 375.9892684                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |
| Manufacturer Test Comments | Lab Comments: kein Kommentar!; VeCeD: US06 Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |             |                                  |        |    |                               |            |            |                           |       |    |                                              |        |    |                                  |             |    |                                  |        |    |                               |            |            |                           |        |    |                                              |       |    |                         |          |    |                      |           |    |                                                    |           |    |                                            |            |    |                                                 |          |    |                                    |      |      |                      |           |    |                     |           |    |                                 |          |    |                                  |        |    |                         |           |    |                              |           |    |  |  |

## Certification Summary Information Report

| Test Group           |               | VVG AJ02.0A2H             |               |                | Evaporative/Refueling Family |                  |                          |        |         | VVG AR0171ADF       |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO            | 0.1167         | --                           | --               | --                       | 0.3000 | --      | 0.417               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0011         | --                           | 1.0300           | --                       | 0.0044 | --      | 0.006               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0063         | --                           | --               | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | PM            | 0.0002         | --                           | --               | --                       | 0.0001 | --      | 0.000               | 0.006    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | CO            | 0.12           | --                           | --               | --                       | 0.3000 | --      | 0.4                 | 9.6      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0011         | --                           | 1.0300           | --                       | 0.0044 | --      | 0.006               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0074         | --                           | --               | --                       | --     | --      | 0.014               | 0.030    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0063         | --                           | --               | --                       | 0.0027 | --      | 0.009               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | PM            | 0.0002         | --                           | --               | --                       | 0.0001 | --      | 0.000               | 0.003    | Pass      |

## Certification Summary Information Report

|                                                |                                           |                                       |                                                    |
|------------------------------------------------|-------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VVGAJ02.0A2H                              | <b>Evaporative/Refueling Family</b>   | VVGAR0171ADF                                       |
| <b>Test #</b>                                  | <b>TVGA10092269</b>                       | <b>Test Procedure</b>                 | <b>95 - SC03</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                        | <b>Test Fuel Type</b>                 | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 07/28/2025                                | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | IG0045                                    | <b>Fuel Calibration Number</b>        | 9                                                  |
| <b>Vehicle Class</b>                           | LDV/Passenger Car                         | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | AUDI AG Ingolstadt                        |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3350                                      | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | Yes                                       | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                        |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | Yes                                                |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0.0021113             | --                                                       |
| CO (Carbon Monoxide)                               | 0.0766967             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.113407              | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.3992158             | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 1.69804               | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 20.2                  | 20.2                                                     |
| NOX (Nitrogen Oxide)                               | 0.0078867             | --                                                       |
| N2O (Nitrous Oxide)                                | 0                     | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0005321             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0005                | --                                                       |
| PM (Particulate Matter)                            | 0.0002716             | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0025725             | --                                                       |

| Test Result Name                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 432                   | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 432.2274727           | --                    |

## Manufacturer Test Comments

Lab Comments: kein Kommentar!; VeCeD: SC03 Tested as Q5 TFSI quattro EDV ETW: 4750 RLHP: 15.3

## Certification Summary Information Report

| Test Group           |               | VVGAJ02.0A2H              |               |                |     | Evaporative/Refueling Family |                          |        |         | VVGAR0171ADF        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level            | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | CO            | 0.0767         | --  | --                           | --                       | 0.3000 | --      | 0.377               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NMOG          | 0.0005         | --  | 1.0300                       | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 30     | NOX           | 0.0079         | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | CO            | 0.08           | --  | --                           | --                       | 0.3000 | --      | 0.4                 | 1.0      | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG          | 0.0005         | --  | 1.0300                       | --                       | 0.0044 | --      | 0.005               | 99.999   | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NMOG+NOX      | 0.0084         | --  | --                           | --                       | --     | --      | 0.016               | 0.025    | Pass      |
| CA                   | 150,000 miles | California LEV-IV SULEV25 | NOX           | 0.0079         | --  | --                           | --                       | 0.0027 | --      | 0.011               | 99.999   | Pass      |

## Certification Summary Information Report

| Test Group                                                                | VVGAJ02.0A2H                                       | Evaporative/Refueling Family                                              | VVGAR0171ADF |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>WB0024</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 01/23/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 01/24/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.75         |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.6                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17932        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.825                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>NK0022</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>1</b>     |
| <b>Test Fuel Type</b>                                                     | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 07/05/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 08/06/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.754        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.7                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17960        |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | --                                                 | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | --           |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | 0.829                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>IG0045</b>                                      | <b>Fuel Calibration Number</b>                                            | <b>9</b>     |
| <b>Test Fuel Type</b>                                                     | 49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 07/05/2024   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 09/19/2024                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | --           |
| <b>Carbon Weight Fraction NMHC</b>                                        | --                                                 | <b>Carbon Weight Fraction HC</b>                                          | --           |
| <b>Exhaust Carbon Weight Fraction</b>                                     | --                                                 | <b>Fuel Methanol Volume Fraction</b>                                      | --           |
| <b>Fuel Density (grams/cubic ft)</b>                                      | --                                                 | <b>Fuel Specific Gravity</b>                                              | 0.754        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.7                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | --           |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | 41.775                                             | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | 0.829        |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | --                                                 | <b>Weight Fraction CO2</b>                                                | --           |



## Certification Summary Information Report

|                                |               |                                     |     |             |                                 |                                   |         |                                         |        |
|--------------------------------|---------------|-------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|-----------------------------------------|--------|
| Test Group                     |               | VVGAJ02.0A2H                        |     |             | Evaporative/Refueling Family    |                                   |         | VVGAR0171ADF                            |        |
| Consolidated List of Standards |               |                                     |     |             |                                 |                                   |         |                                         |        |
| Exhaust Standards              |               |                                     |     |             |                                 |                                   |         |                                         |        |
| Cert Region                    |               | Federal                             |     |             | Cert/In-Use Code                |                                   |         | Both                                    |        |
| Vehicle Class                  |               | LDV/Passenger Car                   |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 30                   |        |
| Fuel                           |               | Gasoline                            |     |             | Test Procedure                  |                                   |         | Federal fuel 2-day exhaust (w/can load) |        |
| Useful Life                    | Emission Name | Rounded Result                      | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                                  | Std    |
| 120,000 miles                  | CREE          | --                                  | --  | --          | --                              | --                                | --      | 0.3900                                  | 999    |
| 120,000 miles                  | METHANE       | --                                  | --  | --          | --                              | --                                | --      | 0.0014                                  | 0.030  |
| 120,000 miles                  | N2O           | --                                  | --  | --          | --                              | --                                | --      | 0.0005                                  | 0.010  |
| 150,000 miles                  | CO            | --                                  | --  | --          | --                              | --                                | --      | 0.3000                                  | 1.0    |
| 150,000 miles                  | CO-COMP       | --                                  | --  | --          | --                              | --                                | --      | --                                      | 4.2    |
| 150,000 miles                  | NMOG          | --                                  | --  | 1.099       | --                              | --                                | --      | 0.0044                                  | 99.999 |
| 150,000 miles                  | NMOG+NOX      | --                                  | --  | --          | --                              | --                                | 1       | --                                      | 0.030  |
| 150,000 miles                  | NMOG+NOX-COMP | --                                  | --  | --          | --                              | --                                | --      | --                                      | 0.040  |
| 150,000 miles                  | NOX           | --                                  | --  | --          | --                              | --                                | --      | 0.0027                                  | 99.999 |
| 150,000 miles                  | PM            | --                                  | --  | --          | --                              | --                                | --      | 0.0001                                  | 0.003  |
|                                |               |                                     |     |             |                                 |                                   |         |                                         |        |
| Cert Region                    |               | California + CAA Section 177 states |     |             | Cert/In-Use Code                |                                   |         | Both                                    |        |
| Vehicle Class                  |               | LDV/Passenger Car                   |     |             | Standard Level                  |                                   |         | California LEV-IV SULEV25               |        |
| Fuel                           |               | Gasoline                            |     |             | Test Procedure                  |                                   |         | SC03                                    |        |
| Useful Life                    | Emission Name | Rounded Result                      | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                                  | Std    |
| 150,000 miles                  | CO            | --                                  | --  | --          | --                              | --                                | --      | 0.3000                                  | 1.0    |
| 150,000 miles                  | NMOG          | --                                  | --  | 1.0300      | --                              | --                                | --      | 0.0044                                  | 99.999 |
| 150,000 miles                  | NMOG+NOX      | --                                  | --  | --          | --                              | --                                | 1       | --                                      | 0.025  |
| 150,000 miles                  | NOX           | --                                  | --  | --          | --                              | --                                | --      | 0.0027                                  | 99.999 |
|                                |               |                                     |     |             |                                 |                                   |         |                                         |        |

## Certification Summary Information Report

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VVGAJ02.0A2H          |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VVGAR0171ADF          |            |
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | SC03                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 150,000 miles        | CO                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.3000                | 99.999     |
| 150,000 miles        | NMOG                 | --                    | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                | 99.999     |
| 150,000 miles        | NOX                  | --                    | --         | --                 | --                                     | --                                       | --             | 0.0027                | 99.999     |

|                      |                      |                                     |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                                    |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25               |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Federal fuel 2-day exhaust (w/can load) |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>                           | <b>Std</b> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.3000                                  | 1.0        |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | 0.0044                                  | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                                      | 0.025      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                                  | 99.999     |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0001                                  | 0.001      |

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | Cold CO               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 50,000 miles         | CO                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.1000                | 10.0       |
| 120,000 miles        | HC-NM                | --                    | --         | --                 | --                                     | --                                       | --             | 0.0032                | 0.3        |

## Certification Summary Information Report

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Test Group</b>    |                      | VVGAJ02.0A2H                        |            |                    | Evaporative/Refueling Family           |                                          |                | VVGAR0171ADF              |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | US06                      |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.3000                    | 9.6        |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.030      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |
| 150,000 miles        | PM                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0001                    | 0.003      |
|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Fed. fuel 50 F exh.       |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 4,000 miles          | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | --                        | 1.0        |
| 4,000 miles          | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | --                        | 99.999     |
| 4,000 miles          | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.050      |
| 4,000 miles          | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | --                        | 99.9990    |
|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
| <b>Cert Region</b>   |                      | Federal                             |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30     |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Quick-Driveway (QD)       |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.042      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |

## Certification Summary Information Report

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VVGAJ02.0A2H          |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VVGAR0171ADF          |            |
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 120,000 miles        | CREE                 | --                    | --         | --                 | --                                     | --                                       | --             | 0.3900                | 999        |
| 150,000 miles        | NMOG                 | --                    | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                    | --         | --                 | --                                     | --                                       | 1              | --                    | 0.030      |
| 150,000 miles        | NOX                  | --                    | --         | --                 | --                                     | --                                       | --             | 0.0027                | 99.999     |

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                      |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.025      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Quick-Driveway (QD)       |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 150,000 miles        | NMOG                 | --                                  | --         | 1.099              | --                                     | --                                       | --             | 0.0044                    | 99.999     |
| 150,000 miles        | NMOG+NOX             | --                                  | --         | --                 | --                                     | --                                       | 1              | --                        | 0.037      |
| 150,000 miles        | NOX                  | --                                  | --         | --                 | --                                     | --                                       | --             | 0.0027                    | 99.999     |

## Certification Summary Information Report

|                      |                      |                       |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|-----------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | VVGAJ02.0A2H          |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VVGAR0171ADF          |            |
| <b>Cert Region</b>   |                      | Federal               |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                  |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car     |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 30 |            |
| <b>Fuel</b>          |                      | Gasoline              |            |                    | <b>Test Procedure</b>                  |                                          |                | US06                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 150,000 miles        | CO                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.3000                | 99.999     |
| 150,000 miles        | NMOG                 | --                    | --         | 1.0300             | --                                     | --                                       | --             | 0.0044                | 99.999     |
| 150,000 miles        | NOX                  | --                    | --         | --                 | --                                     | --                                       | --             | 0.0027                | 99.999     |
| 150,000 miles        | PM                   | --                    | --         | --                 | --                                     | --                                       | --             | 0.0001                | 0.006      |

|                      |                      |                                     |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-IV SULEV25 |            |
| <b>Fuel</b>          |                      | Gasoline                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Cold CO                   |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>             | <b>Std</b> |
| 50,000 miles         | CO                   | --                                  | --         | --                 | --                                     | --                                       | --             | 0.1000                    | 10.0       |

## Evaporative/Refueling Standards

|                              |               |                |                |                |        |                                        |  |
|------------------------------|---------------|----------------|----------------|----------------|--------|----------------------------------------|--|
| Evaporative/Refueling Family |               | VVGAR0171ADF   |                | Cert Region    |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Both           |                | Standard Level |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | 2-day evap     |                |                |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name  | Rounded Result | Std            | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV | --             | 0.375          | 0.0751 |                                        |  |

|                              |  |                                    |  |                |  |                                        |  |      |  |        |  |
|------------------------------|--|------------------------------------|--|----------------|--|----------------------------------------|--|------|--|--------|--|
| Evaporative/Refueling Family |  | VVGAR0171ADF                       |  | Cert Region    |  | California + CAA Section 177 states    |  |      |  |        |  |
| Cert/In-Use Code             |  | Both                               |  | Standard Level |  | California LEV-IV Zero Evap (Option 2) |  |      |  |        |  |
| Test Procedure               |  | Federal fuel refueling test (ORVR) |  |                |  |                                        |  |      |  |        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name  |  | Rounded Result                         |  | Std  |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV |  | --                                     |  | 0.20 |  | 0.000  |  |

## Certification Summary Information Report

|                              |               |                           |                |                              |        |                                        |  |
|------------------------------|---------------|---------------------------|----------------|------------------------------|--------|----------------------------------------|--|
| Test Group                   |               | VVGAJ02.0A2H              |                | Evaporative/Refueling Family |        | VVGAR0171ADF                           |  |
| Evaporative/Refueling Family |               | VVGAR0171ADF              |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.05                         | 0.000  |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADF              |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | 2-day evap                |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.375                        | 0.0751 |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADF              |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Federal fuel 3-day evap   |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.375                        | 0.0313 |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADF              |                | Cert Region                  |        | California + CAA Section 177 states    |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | California LEV-IV Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.01                         | 0.000  |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |
| Evaporative/Refueling Family |               | VVGAR0171ADF              |                | Cert Region                  |        | Federal                                |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level               |        | Federal Tier 3 Evap                    |  |
| Test Procedure               |               | Evap Canister Bleed Test  |                |                              |        |                                        |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std                          | Add DF |                                        |  |
| Gasoline                     | 150,000 miles | HC-TOTAL-EQUIV            | --             | 0.020                        | --     |                                        |  |
|                              |               |                           |                |                              |        |                                        |  |

## Certification Summary Information Report

|                              |  |                                    |  |                              |  |                                        |  |       |  |        |  |
|------------------------------|--|------------------------------------|--|------------------------------|--|----------------------------------------|--|-------|--|--------|--|
| Test Group                   |  | VVGAJ02.0A2H                       |  | Evaporative/Refueling Family |  | VVGAR0171ADF                           |  |       |  |        |  |
| Evaporative/Refueling Family |  | VVGAR0171ADF                       |  | Cert Region                  |  | California + CAA Section 177 states    |  |       |  |        |  |
| Cert/In-Use Code             |  | Both                               |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |       |  |        |  |
| Test Procedure               |  | Federal fuel 3-day evap            |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.375 |  | 0.0313 |  |
|                              |  |                                    |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VVGAR0171ADF                       |  | Cert Region                  |  | Federal                                |  |       |  |        |  |
| Cert/In-Use Code             |  | Both                               |  | Standard Level               |  | Federal Tier 3 Evap                    |  |       |  |        |  |
| Test Procedure               |  | Federal fuel refueling test (ORVR) |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.20  |  | 0.000  |  |
|                              |  |                                    |  |                              |  |                                        |  |       |  |        |  |
| Evaporative/Refueling Family |  | VVGAR0171ADF                       |  | Cert Region                  |  | California + CAA Section 177 states    |  |       |  |        |  |
| Cert/In-Use Code             |  | Both                               |  | Standard Level               |  | California LEV-IV Zero Evap (Option 2) |  |       |  |        |  |
| Test Procedure               |  | Evap Canister Bleed Test           |  |                              |  |                                        |  |       |  |        |  |
| Fuel                         |  | Useful Life                        |  | Emission Name                |  | Rounded Result                         |  | Std   |  | Add DF |  |
| Gasoline                     |  | 150,000 miles                      |  | HC-TOTAL-EQUIV               |  | --                                     |  | 0.020 |  | --     |  |

## Certification Summary Information Report

| Test Group           |                                                                 | VVG AJ02.0A2H      | Evaporative/Refueling Family                       | VVG AR0171ADF |
|----------------------|-----------------------------------------------------------------|--------------------|----------------------------------------------------|---------------|
| Glossary             |                                                                 |                    |                                                    |               |
| <b>Useful Life</b>   |                                                                 |                    |                                                    |               |
| 4                    | 4,000 miles                                                     | 120                | 120,000 miles                                      |               |
| 50                   | 50,000 miles                                                    | 150                | 150,000 miles                                      |               |
| 100                  | 100,000 miles                                                   |                    |                                                    |               |
| <b>Emission Name</b> |                                                                 |                    |                                                    |               |
| HC-TOTAL             | Total Hydrocarbon                                               | COMB-CREE          | Combined Carbon-Related Exhaust Emissions          |               |
| CO                   | Carbon Monoxide                                                 | COMB-OPT-CREE      | Combined Optional Carbon-Related Exhaust Emissions |               |
| CO2                  | Carbon dioxide                                                  | HC-TOTAL-EQUIV     | Total Hydrocarbon equivalent - Evap only           |               |
| CREE                 | Carbon-Related Exhaust Emissions                                | METHANE-COMB       | Combined CH4 for HD 2b/3 vehicles only             |               |
| OPT-CREE             | Optional Carbon-Related Exhaust Emissions                       | N2O-COMB           | Combined Nitrous Oxide for HD 2b/3 vehicles only   |               |
| NOX                  | Nitrogen Oxide                                                  | LEAK-DIA           | Effective Leak Diameter (inches)                   |               |
| PM                   | Particulate Matter                                              | LEAK-GAS CAP       | Gas Cap Leakage (cc/min)                           |               |
| PM-COMP              | SFTP Composite Particulate Matter                               | CO2-COMB           | Combined Carbon Dioxide for HD 2b/3 Vehicles Only  |               |
| HC-NM                | Non-methane Hydrocarbon                                         | KW-HRS             | Integrated DC KW-HRS                               |               |
| OMHCE                | Organic material Hydrocarbon Equivalent                         | CH4 BAG 1          | Bag 1 Methane                                      |               |
| OMNMHCE              | Organic material non-methane HC equivalent                      | CH4 BAG 2          | Bag 2 Methane                                      |               |
| NMOG                 | Non-methane organic gases                                       | CH4 BAG 3          | Bag 3 Methane                                      |               |
| HCHO                 | Formaldehyde                                                    | CH4 BAG 4          | Bag 4 Methane                                      |               |
| H3C2HO               | Acetaldehyde                                                    | CO BAG 1           | Bag 1 Carbon Monoxide                              |               |
| HC-NM+NOX            | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | CO BAG 2           | Bag 2 Carbon Monoxide                              |               |
| HC-NM+NOX-COMP       | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        | CO BAG 3           | Bag 3 Carbon Monoxide                              |               |
| CO-COMP              | SFTP Composite Carbon Monoxide                                  | CO BAG 4           | Bag 4 Carbon Monoxide                              |               |
| ETHANOL              | C2H5OH - Ethanol                                                | NMOG BAG 1         | Bag 1 Non-methane organic gases                    |               |
| FE BAG 1             | Bag 1 Fuel Economy                                              | NMOG BAG 2         | Bag 2 Non-methane organic gases                    |               |
| FE BAG 2             | Bag 2 Fuel Economy                                              | NMOG BAG 3         | Bag 3 Non-methane organic gases                    |               |
| FE BAG 3             | Bag 3 Fuel Economy                                              | NMOG BAG 4         | Bag 4 Non-methane organic gases                    |               |
| FE BAG 4             | Bag 4 Fuel Economy                                              | ACT-DISTANCE BAG 1 | Bag 1 Actual Distance                              |               |
| MFR FE               | Manufacturer Fuel Economy                                       | ACT-DISTANCE BAG 2 | Bag 2 Actual Distance                              |               |
| HC                   | Hydrocarbon for Running Loss and ORVR                           | ACT-DISTANCE BAG 3 | Bag 3 Actual Distance                              |               |
| METHANE              | CH4 - Methane                                                   | ACT-DISTANCE BAG 4 | Bag 4 Actual Distance                              |               |
| METHANOL             | CH3OH - Methanol                                                | HC-TOTAL BAG 1     | Bag 1 Total Hydrocarbon                            |               |
| N2O                  | Nitrous Oxide                                                   | HC-TOTAL BAG 2     | Bag 2 Total Hydrocarbon                            |               |
| SPITBACK             | Spitback Hydrocarbon in grams                                   | HC-TOTAL BAG 3     | Bag 3 Total Hydrocarbon                            |               |
| AMP-HRS              | Integrated Amp-hours                                            | HC-TOTAL BAG 4     | Bag 4 Total Hydrocarbon                            |               |
| START-SOC            | System Start State of Charge Watt-hours                         | WATT-HRS BAG 1     | Bag 1 Watt Hours                                   |               |
| END-SOC              | System End State of Charge Watt-hours                           | WATT-HRS BAG 2     | Bag 2 Watt Hours                                   |               |



## Certification Summary Information Report

| Test Group                             |                                                            | VVGAJ02.0A2H | Evaporative/Refueling Family |                                                 | VVGAR0171ADF |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|--------------|
| ACT-DISTANCE                           | Actual Distance Driven (miles)                             |              | WATT-HRS BAG 3               | Bag 3 Watt Hours                                |              |
| AS-VOLT                                | Average System Voltage                                     |              | WATT-HRS BAG 4               | Bag 4 Watt Hours                                |              |
| CO2 BAG 1                              | Bag 1 Carbon Dioxide                                       |              | WATT-HRS                     | Watt Hours                                      |              |
| CO2 BAG 2                              | Bag 2 Carbon Dioxide                                       |              | HC-NM BAG 1                  | Bag 1 Non-methane Hydrocarbon                   |              |
| CO2 BAG 3                              | Bag 3 Carbon Dioxide                                       |              | HC-NM BAG 2                  | Bag 2 Non-methane Hydrocarbon                   |              |
| CO2 BAG 4                              | Bag 4 Carbon Dioxide                                       |              | HC-NM BAG 3                  | Bag 3 Non-methane Hydrocarbon                   |              |
| NMOG+NOX                               | Non-methane organic gases plus Nitrogen Oxides             |              | HC-NM BAG 4                  | Bag 4 Non-methane Hydrocarbon                   |              |
| NMOG+NOX-COMP                          | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |              | N2O BAG 1                    | Bag 1 Nitrous Oxide                             |              |
| DT-IWRR                                | Drive Trace Inertia Work Ratio Rating                      |              | N2O BAG 2                    | Bag 2 Nitrous Oxide                             |              |
| DT-ASCR                                | Drive Trace Absolute Speed Change Rating                   |              | N2O BAG 3                    | Bag 3 Nitrous Oxide                             |              |
| DT-EER                                 | Drive Trace Energy Economy Rating                          |              | N2O BAG 4                    | Bag 4 Nitrous Oxide                             |              |
| <b>Certification Region</b>            |                                                            |              |                              |                                                 |              |
| CA                                     | California + CAA Section 177 states                        |              | FA                           | Federal                                         |              |
| <b>Exhaust Emission Standard Level</b> |                                                            |              |                              |                                                 |              |
| B1                                     | Federal Tier 2 Bin 1                                       |              | HDV2B340                     | Federal Tier 3 HD Class 2b Transitional Bin 340 |              |
| B2                                     | Federal Tier 2 Bin 2                                       |              | HDV2B250                     | Federal Tier 3 HD Class 2b Bin 250              |              |
| B3                                     | Federal Tier 2 Bin 3                                       |              | HDV2B200                     | Federal Tier 3 HD Class 2b Bin 200              |              |
| B4                                     | Federal Tier 2 Bin 4                                       |              | HDV2B170                     | Federal Tier 3 HD Class 2b Bin 170              |              |
| B5                                     | Federal Tier 2 Bin 5                                       |              | HDV2B150                     | Federal Tier 3 HD Class 2b Bin 150              |              |
| B6                                     | Federal Tier 2 Bin 6                                       |              | HDV2B0                       | Federal Tier 3 HD Class 2b Bin 0                |              |
| B7                                     | Federal Tier 2 Bin 7                                       |              | HDV3B630                     | Federal Tier 3 HD Class 3 Transitional Bin 630  |              |
| B8                                     | Federal Tier 2 Bin 8                                       |              | HDV3B570                     | Federal Tier 3 HD Class 3 Transitional Bin 570  |              |
| B9                                     | Federal Tier 2 Bin 9                                       |              | HDV3B400                     | Federal Tier 3 HD Class 3 Bin 400               |              |
| B10                                    | Federal Tier 2 Bin 10                                      |              | HDV3B270                     | Federal Tier 3 HD Class 3 Bin 270               |              |
| B11                                    | Federal Tier 2 Bin 11                                      |              | HDV3B230                     | Federal Tier 3 HD Class 3 Bin 230               |              |
| HDV1                                   | HDV1 (Federal HD chassis Class 2b GVW 8501-10000)          |              | HDV3B200                     | Federal Tier 3 HD Class 3 Bin 200               |              |
| HDV2                                   | HDV2 (Federal HD chassis Class 3 GVW 10001-14000)          |              | HDV3B0                       | Federal Tier 3 HD Class 3 Bin 0                 |              |
| L2                                     | California LEV-II LEV                                      |              | L4SULEV100                   | California LEV-IV SULEV100                      |              |
| L2OP                                   | California LEV-II LEV Optional                             |              | L4SULEV125                   | California LEV-IV SULEV125                      |              |
| U2                                     | California LEV-II ULEV                                     |              | L4SULEV15                    | California LEV-IV SULEV15                       |              |
| S2                                     | California LEV-II SULEV                                    |              | L4SULEV150                   | California LEV-IV SULEV150                      |              |
| ZEV                                    | California ZEV                                             |              | L4SULEV170                   | California LEV-IV SULEV170                      |              |
| OT                                     | Other                                                      |              | L4SULEV175                   | California LEV-IV SULEV175                      |              |
| T1                                     | Federal Tier 1                                             |              | L4SULEV20                    | California LEV-IV SULEV20                       |              |
| PZEV                                   | California PZEV                                            |              | L4SULEV200                   | California LEV-IV SULEV200                      |              |
| L2LEV160                               | California LEV-II LEV160                                   |              | L4SULEV230                   | California LEV-IV SULEV230                      |              |
| L2ULEV125                              | California LEV-II ULEV125                                  |              | L4SULEV25                    | California LEV-IV SULEV25                       |              |
| L2SULEV30                              | California LEV-II SULEV30                                  |              | L4SULEV30                    | California LEV-IV SULEV30                       |              |
| L2LEV395                               | California LEV-II LEV395                                   |              | L4SULEV75                    | California LEV-IV SULEV75                       |              |

## Certification Summary Information Report

| Test Group                    |                                                                   | VVGAJ02.0A2H | Evaporative/Refueling Family                             |                            | VVGAR0171ADF |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|--------------|
| L2ULEV340                     | California LEV-II ULEV340                                         |              | L4SULEV85                                                | California LEV-IV SULEV85  |              |
| L2LEV630                      | California LEV-II LEV630                                          |              | L4ULEV125                                                | California LEV-IV ULEV125  |              |
| L2ULEV570                     | California LEV-II ULEV570                                         |              | L4ULEV200                                                | California LEV-IV ULEV200  |              |
| L3LEV160                      | California LEV-III LEV160                                         |              | L4ULEV250                                                | California LEV-IV ULEV250  |              |
| L3ULEV125                     | California LEV-III ULEV125                                        |              | L4ULEV270                                                | California LEV-IV ULEV270  |              |
| L3ULEV70                      | California LEV-III ULEV70                                         |              | L4ULEV40                                                 | California LEV-IV ULEV40   |              |
| L3ULEV50                      | California LEV-III ULEV50                                         |              | L4ULEV400                                                | California LEV-IV ULEV400  |              |
| L3SULEV30                     | California LEV-III SULEV30                                        |              | L4ULEV50                                                 | California LEV-IV ULEV50   |              |
| L3SULEV20                     | California LEV-III SULEV20                                        |              | L4ULEV60                                                 | California LEV-IV ULEV60   |              |
| L3LEV395                      | California LEV-III LEV395                                         |              | L4ULEV70                                                 | California LEV-IV ULEV70   |              |
| L3ULEV340                     | California LEV-III ULEV340                                        |              | T4B170                                                   | Federal Tier 4 MDV Bin 170 |              |
| L3ULEV250                     | California LEV-III ULEV250                                        |              | T4B150                                                   | Federal Tier 4 MDV Bin 150 |              |
| L3ULEV200                     | California LEV-III ULEV200                                        |              | T4B125                                                   | Federal Tier 4 MDV Bin 125 |              |
| L3SULEV170                    | California LEV-III SULEV170                                       |              | T4B100                                                   | Federal Tier 4 MDV Bin 100 |              |
| L3SULEV150                    | California LEV-III SULEV150                                       |              | T4B85                                                    | Federal Tier 4 MDV Bin 85  |              |
| L3LEV630                      | California LEV-III LEV630                                         |              | T4B75                                                    | Federal Tier 4 MDV Bin 75  |              |
| L3ULEV570                     | California LEV-III ULEV570                                        |              | T4B70                                                    | Federal Tier 4 Bin 70      |              |
| L3ULEV400                     | California LEV-III ULEV400                                        |              | T4B65                                                    | Federal Tier 4 Bin 65      |              |
| L3ULEV270                     | California LEV-III ULEV270                                        |              | T4B60                                                    | Federal Tier 4 Bin 60      |              |
| L3SULEV230                    | California LEV-III SULEV230                                       |              | T4B55                                                    | Federal Tier 4 Bin 55      |              |
| L3SULEV200                    | California LEV-III SULEV200                                       |              | T4B50                                                    | Federal Tier 4 Bin 50      |              |
| T3B160                        | Federal Tier 3 Bin 160                                            |              | T4B45                                                    | Federal Tier 4 Bin 45      |              |
| T3B125                        | Federal Tier 3 Bin 125                                            |              | T4B40                                                    | Federal Tier 4 Bin 40      |              |
| T3B110                        | Federal Tier 3 Transitional Bin 110                               |              | T4B35                                                    | Federal Tier 4 Bin 35      |              |
| T3B85                         | Federal Tier 3 Transitional Bin 85                                |              | T4B30                                                    | Federal Tier 4 Bin 30      |              |
| T3SULEV30                     | Federal Tier 3 Transitional LEV-II SULEV30 Carryover              |              | T4B25                                                    | Federal Tier 4 Bin 25      |              |
| T3B70                         | Federal Tier 3 Bin 70                                             |              | T4B20                                                    | Federal Tier 4 Bin 20      |              |
| T3B50                         | Federal Tier 3 Bin 50                                             |              | T4B15                                                    | Federal Tier 4 Bin 15      |              |
| T3B30                         | Federal Tier 3 Bin 30                                             |              | T4B10                                                    | Federal Tier 4 Bin 10      |              |
| T3B20                         | Federal Tier 3 Bin 20                                             |              | T4B5                                                     | Federal Tier 4 Bin 5       |              |
| T3B0                          | Federal Tier 3 Bin 0                                              |              | T4B0                                                     | Federal Tier 4 Bin 0       |              |
| HDV2B395                      | Federal Tier 3 HD Class 2b Transitional Bin 395                   |              |                                                          |                            |              |
| <b>Transmission Type Code</b> |                                                                   |              |                                                          |                            |              |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M            | Manual                                                   |                            |              |
| A                             | Automatic                                                         | OT           | Other                                                    |                            |              |
| AM                            | Automated Manual                                                  | SA           | Semi-Automatic                                           |                            |              |
| CVT                           | Continuously Variable                                             | SCV          | Selectable Continuously Variable (e.g. CVT with paddles) |                            |              |
| <b>Drive System Code</b>      |                                                                   |              |                                                          |                            |              |
| 4                             | 4-Wheel Drive                                                     | P            | Part-time 4-Wheel Drive                                  |                            |              |

Certification Summary Information Report

| Test Group                    |                                 | VVGAJ02.0A2H | Evaporative/Refueling Family |                                  | VVGAR0171ADF |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|--------------|
| F                             | 2-Wheel Drive, Front            |              | A                            | All Wheel Drive                  |              |
| R                             | 2-Wheel Drive, Rear             |              |                              |                                  |              |
| Additional Terms and Acronyms |                                 |              |                              |                                  |              |
| AFC                           | Alternative Fuel Converter      |              | ICI                          | Independent Commercial Importer  |              |
| CSI                           | Certificate Summary Information |              | ORVR                         | Onboard Refueling Vapor Recovery |              |
| DF                            | Deterioration Factor            |              | SIL                          | Shift Indicator Light            |              |
| Evap                          | Evaporation, Evaporative        |              | Trans                        | Transmission                     |              |

## 8. Emission Testing Waiver Statements

### ***Emissions Continuity Compliance Statement NMOG, CO, CO<sub>2</sub>, NO<sub>x</sub>, N<sub>2</sub>O, CH<sub>4</sub>, and HCHO***

In accordance with EPA Guidance Letter CD-14-19 and 40 CFR 86.1809-12 (e) the Volkswagen Group hereby certifies that based on engineering evaluations of emission testing there is no discontinuity in emission performance of NMOG, CO, CO<sub>2</sub>, NO<sub>x</sub>, N<sub>2</sub>O, CH<sub>4</sub> and HCHO as measured and averaged over the Federal Test Procedure and the Highway Test Procedure in the temperature range of 20°F to 86°F for vehicles in this test group.

The normal operation of the emission control system consists of:

(i) Cycling back and forth in a narrow window between rich and lean operation as a result of feedback controls targeted to maintain overall engine operation at stoichiometry.

(ii) Small changes in the target air-fuel ratio to optimize vehicle emissions or drivability. This may be called "closed loop biasing."

(iii) Temporary enrichment in response to rapid throttle motion.

(iv) Enrichment during cold-start and warm-up conditions.

(v) Temporary air/fuel mixture modulation for running OBD checks to comply with California OBD regulations contained in 13 CCR §1968.2.

(vi) Infrequent operation modes, e.g. PM trap regeneration, are certified under special provisions of the CFR".

The modulation of the emission control system can cause step changes in emissions and CO<sub>2</sub> depending on the driving condition (engine speed and load). This modulation is not forming a discontinuity in emissions because it is included in the Federal Test Procedures and is working under the same conditions during on-road operation.

### ***91 RON (Knock Sensor): Compliance Statement:***

***(Note: Statement only applies to regular fuel concepts)***

In accordance with EPA Guidance Letter CD-14-19 and VPCD-97-01, city and highway fuel economy test result differences between 91 RON operation and 96 RON operation are within 3% and there are no emission increases (beyond normal test variability) using 91 RON fuel with a comparable fuel specification when tested on the FTP or SFTP cycles.

### ***A/C Calibrations – Compliance Statement***

In accordance with EPA Guidance Letter CD-14-19 and 40 CFR 86.1811-17 (d) (3) there are neither A/C-on specific calibrations nor A/C-on specific "open-loop" or "commanded" air fuel enrichment strategies incorporated into the vehicle design of this Test Group.

### ***Lean Best Torque Compliance Statement***

In accordance with EPA Guidance Letter CD-14-19 and 40 CFR 86.1811-17 (d) (1) the air fuel ratio is not richer at any time over the US06 cycle than the leanest air fuel ratio required to obtain maximum torque plus a tolerance of four percent. Other enrichments, if applicable e.g. for part protection, are described in the AECD description of the test group (section 16).

### ***Lean-On Cruise Compliance Statement***

In accordance with EPA Guidance Letter CD-14-19 and 40 CFR 86.1811-17 (d) (4) there are no "Lean-on-cruise" calibration strategies incorporated into the vehicle design of this test group.

### ***OBD Compliance Statement***

The OBD system meets the full intent of both the EPA Tier 3 Regulations contained in CFR Title 40 Part 86.1806-17 and the California OBD regulations contained in 13 CCR §1968.2.

### ***Leak Free Exhaust System Compliance Statement***

In accordance with 40 CFR 86.1844-01(d)(16(i), the Volkswagen Group hereby states that, for vehicles described in this application, as appropriate, it has conducted an engineering analysis of the complete exhaust system to ensure that the exhaust system has been designed:

(A) To facilitate leak-free assembly, installation and operation for the full useful life of the vehicles, and

(B) to facilitate that such repairs as might be necessary on a properly maintained and used vehicle can be performed in such a manner as to maintain leak-free operation, using tools commonly available in a motor vehicle dealership or independent repair shop for the full useful life of the vehicle.

A "leak-free" exhaust system is understood from the engine block to the point in the exhaust system behind the last component of exhaust aftertreatment system (e.g. catalyst).

Silencer/muffler and tailpipes are not part of the exhaust aftertreatment system when installed downstream the last component of exhaust aftertreatment.

For installation/mounting of the exhaust system clamps and/or flanges are used with a technical leakage specification ensuring compliance with exhaust emission standards in-use. Meaning: The exhaust system is designed to fulfill the lowest leakage according to state-of-the-art exhaust aftertreatment systems.

### ***High Altitude Exhaust Emissions Compliance Statement***

In accordance with 40 CFR 86.1829-15 (c), The Volkswagen Group hereby certifies that, based upon engineering evaluation and high altitude emission tests conducted on similar vehicles, all vehicles of this test group comply with the high altitude exhaust emissions requirements.

***Formaldehyde Emissions Compliance Statement***

In accordance with 86.1829-15 (d) (4), and based upon good engineering judgment, the Volkswagen Group hereby states that vehicles certified based upon NMHC emissions comply with the applicable formaldehyde emission standards.

***High Altitude Evaporative/Refueling Emissions Compliance Statement***

In accordance with 40 CFR 86.1829-01 (b) (2) (ii) (B), the Volkswagen Group hereby certifies that, based upon engineering evaluation and high altitude evaporative/refueling tests conducted on similar vehicles, all vehicles of this test group comply with the high altitude evaporative/refueling emissions requirements.

***Spitback Compliance Statement***

In accordance 40 CFR 86.1829-15 (e) (5) the Volkswagen Group hereby certifies that the vehicle inherently meets the Fuel Dispensing Spitback Standard as part of compliance with the refueling emission standard. This certification applies to the full useful life of the vehicle. Testing is therefore not required.

***Evaporative Leak Test Compliance Statement***

In accordance with 40 CFR 86.1829-15 (e) (4), the Volkswagen Group hereby certifies that, based upon engineering evaluation all vehicles in the evaporative/refueling emission family comply with the evaporative emission standard outlined in 40 CFR 86.1813-17 (a) (4).

***Driver-Selectable modes Compliance Statement***

In accordance with EPA Guidance Letter CISC-09-19, all driver-selectable transmission drive modes are deemed to comply with emission standards.

## **9.0      OBD System Description**

### **9.1      Summary Table**

Refer to Section 16 (included in OBD II A – P application)

### **9.2      California Air Resources Board OBD System Approval Letter.**

Refer to Section 16

**10. Description of Alternate Fueled Vehicles**

Not applicable



## **11. Auxiliary Emission Control Devices (AECD) Descriptions**

Refer to Section 16.2 of this Application

12.0 List of Certified Vehicles

|                          |                                            |
|--------------------------|--------------------------------------------|
| Durability Group         | VVGAGPGNNA3H                               |
| Test Group               | VVGAJ02.0A2H                               |
| Evap Family              | VVGAR0171ADF (Q5)<br>VVGAR0171ADE (A5)     |
| Emission Control System: | DFI/AIR/TC/CAC/TWC(2)/GPF/<br>WR-HO2S/HO2S |
|                          |                                            |

|                      |           |
|----------------------|-----------|
| Engine Displacement: | 2.0 liter |
| Valves per Cylinder: | 4         |
| Sales Area:          | 50 states |
| MMS:                 | SIMOS 30  |
| SIL:                 | N/A       |

| Engine Code | Model            | Vehicle Class | Engine Code Characteristics |                    |            | HP @RPM        | Torque @RPM [lb-ft]  | Trans. / OD | ETW  | Curb Weight [lbs] | GVWR [lbs] | Fuel Tank Capacity [Gal] | Canister working capacity [g] | Tire size                              | N/V Ratio            | Start/ Stop [Y/N] |
|-------------|------------------|---------------|-----------------------------|--------------------|------------|----------------|----------------------|-------------|------|-------------------|------------|--------------------------|-------------------------------|----------------------------------------|----------------------|-------------------|
|             |                  |               | Cat. Code                   | Com-pression ratio | Idle [rpm] |                |                      |             |      |                   |            |                          |                               |                                        |                      |                   |
| DXCA        | Q5, Q5 Sportback | LDT2          | JM1102<br>JM1110T<br>JM1105 | 10.5 ±0.15         | 800±50     | 268 @5000-6500 | 295 lb-ft @1750-4500 | 7           | 4500 | 4321              | 5523       | 18                       | 171                           | 235/60 R18<br>235/55 R19<br>255/45 R20 | 26.5<br>26.4<br>26.6 | Y                 |
| DVWA        | Q5, Q5 Sportback | LDT2          | JM1102<br>JM1110T<br>JM1105 | 10.5 ±0.15         | 800±50     | 268 @5000-6500 | 295 lb-ft @1750-4500 | 7           | 4500 | 4321              | 5523       | 18                       | 171                           | 235/60 R18<br>235/55 R19<br>255/45 R20 | 26.5<br>26.4<br>26.6 | Y                 |
| DVWA        | A5               | LDV           | JM1102<br>JM1110T<br>JM1105 | 10.5 ±0.15         | 800±50     | 268 @5000-6500 | 295 lb-ft @1750-4500 | 7           | 4500 | 4156              | 5269       | 16.1                     | 171                           | 235/45 R18<br>245/40 R19<br>245/35 R20 | 24.4<br>24.0<br>24.0 | Y                 |

\*1Nm = 0.737561 lbf×ft

12.1 Transmissions

| Transmission | Transmission Characteristic |            |             |         |                |        |        |        |        |        |        |        |        |
|--------------|-----------------------------|------------|-------------|---------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
|              | Drivetrain                  | Gear Count | Lock-Up rpm |         | Gearbox Ratios |        |        |        |        |        |        |        |        |
|              |                             |            | Gear        | min/max | Axle           | Gear 1 | Gear 2 | Gear 3 | Gear 4 | Gear 5 | Gear 6 | Gear 7 | Gear 8 |
| DL382-7A     | AWD                         | 7          | 1-7         | n.a.    | 5.302 (Q5)     | 3.188  | 2.190  | 1.517  | 1.057  | 0.738  | 0.557  | 0.433  | n.a.   |
|              |                             |            |             |         | 4.410 (A5)     | 3.188  | 2.190  | 1.517  | 1.057  | 0.738  | 0.557  | 0.433  | n.a.   |

12.2 Test conditions

| Model                     | ETW   | Road Track Coefficients |            |               |        |            |             | TRL50 | TCDT | Fuel Tank Cap.   | Fan Pos. | Drive Mode for Testing | Shift Sched. I.D. | Test Fuel    | DF Source   |
|---------------------------|-------|-------------------------|------------|---------------|--------|------------|-------------|-------|------|------------------|----------|------------------------|-------------------|--------------|-------------|
|                           |       | F0                      | F1         | F2            | F0     | F1         | F2          |       |      |                  |          |                        |                   |              |             |
|                           | [lbs] | [lb*f]                  | [lb*f/mpH] | [lb*f/(mpH)²] | [N]    | [N/(km/h)] | [N/(km/h)²] | [hp]  | [s]  | 40% / 100% [Gal] |          |                        |                   |              |             |
| Q5 TFSI quattro           | 4750  | 49.20                   | -0.1428    | 0.02901       | 218.86 | -0.3946    | 0.04982     | 15.3  | 19.5 | 7.2 / 18         | 20       | Sport                  | automatic         | Tier 3 [EDV] | SA3H-Q5-727 |
| Q5 TFSI quattro           | 4500  | 47.32                   | -0.1428    | 0.02758       | 210.51 | -0.3946    | 0.04736     | 14.6  | 19.4 | 7.2 / 18         | 20       | Drive                  | automatic         | Tier 2       |             |
| Q5 Sportback TFSI quattro | 4500  | 47.32                   | -0.1428    | 0.02737       | 210.51 | -0.3946    | 0.04700     | 14.5  | 19.5 | 7.2 / 18         | 20       | Drive                  | automatic         | Tier 2       |             |
| A5 quattro                | 4500  | 46.22                   | -0.1095    | 0.02161       | 205.60 | -0.3026    | 0.03712     | 12.6  | 22.3 | 6.4 / 16.1       | 20       | Drive                  | automatic         | Tier 2       |             |

**Engine Starting procedure:**  
Press the brake pedal and move the selector lever into the P or N position.  
Start engine by turning key to “Start” position or by pushing the Engine “Stop/Start” button.

**ESP/ABS Deactivation procedure**  
Dyno Mode must be activated.  
Refer to Section 16 for Dyno Mode activation procedure.

**Fan Position during dyno testing:**  
FTP / HWY = Road Speed Fan (Modulated)  
US06 = Road Speed Fan (Modulated)

**Automatic Headlight System:**  
Automatic headlight system must be disabled prior to any emissions or fuel economy / range testing. Automatic headlights can be turned off via the infotainment / MMI screen.  
Please contact VWGoA Engineering and Environmental Office if you need assistance with disabling the automatic headlights.

**Daytime Running Lights (DRL):**  
Daytime running lights must be disabled prior to fuel economy / range testing. DRLs can be turned off via the infotainment / MMI screen.  
Please contact VWGoA Engineering and Environmental Office if you need assistance with disabling the daytime running lights.

**Climate Control Settings used for testing:**

- SC03: Climate Control Setting description (if needed)
  - A/C on
  - SYNC on
  - Temperature to 22°C / 72°F
  - Fan Speed to Maximum
  - (only available after engine is turned on)
  - Air recirculation on
  - Direct air vents to driver only



### **12.3 e-Motor Details**

Not Applicable

### **12.4 Battery details**

Not Applicable

### **12.4 Charging details**

Not Applicable

## **13.0 Test Group Projected Sales**

Refer to Section 16 of this Test Group Application

## **13.1 Compliance Plans**

Refer to Section 16 of the Common Section

## **14. Request for Certificate**

### **14.1 Statement of Compliance**

Based on good engineering judgment, the Volkswagen Group states that all the vehicles described in this application for Certification comply with all applicable standards and regulations, incl. the provisions of 40 CFR Parts 85, 86 and 600.

### **14.2. Durability Statement**

Based on the Volkswagen Group's good engineering judgment, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards



## 15. Other Information

## 15.1 Revision Index

[illegible]

## 15.2 Running Change (RC) / Field Fix (FF) Log

Running Change / Field Fix Log for test group only.

|                     |                                              |
|---------------------|----------------------------------------------|
| Model Year:         | 2027                                         |
| Test Group:         | VVGAJ02.0A2H                                 |
| Models:             | Q5 quattro, Q5 Sportback quattro, A5 quattro |
| Evaporative Family: | VVGAR0171ADF (Q5)<br>VVGAR0171ADE (A5)       |

[illegible]

### **15.3 ORVR Safety Statement**

Volkswagen is using standard technology in all MY2026 vehicles ORVR systems. In accordance with EPA Guidance letter CISC-06-06, ORVR application will not be submitted.

Mr. Joshua Kimball  
Compliance and Innovative Strategies Division  
Office of Mobile Sources  
U. S. Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, MI 48105

Anthony D'Ambrosi Name  
Dir, Homologation Title  
EEO - Certification Department  
(248) 754-4396 Phone  
Tony.DAmbrosi@vw.com E-Mail

June 30, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions  
Certification for Test Group VVGAJ02.0A2H with Evaporative Families:  
VVGAR0171ADF and VVGAR0171ADE.

Dear Mr. Kimball,

We submit, with this letter, the model year 2027 Part 1 Application for Emissions  
Certification for the following Test Group:

| <u>Test Group</u> | <u>Standards</u>                        | <u>Sales Area</u>     |
|-------------------|-----------------------------------------|-----------------------|
| VVGAJ02.0A2H      | Tier 4 Interim Bin 30<br>LEV IV ULEV 25 | Federal<br>California |

Copies of the Certification Fee filing form and OBD approval letter are contained in  
sections 15 and 16 of the included electronic application.

All vehicles within this test group comply with all applicable regulations contained in  
40 CFR Part 86, Part 1066 and the compliance statements contained in sections 8  
and 14.

This submission constitutes our final application and the request for issuance of a  
Certificate of Conformity.

If you have any questions regarding this information, please contact our office in  
Auburn Hills at (248) 754-4396.

Sincerely,

D'Ambrosi Anthony  
VWPKI  
5406C07D40F4331C  
Digitally signed by D'Ambrosi  
Anthony VWPKI  
5406C07D40F4331C  
Date: 2026.06.30 13:45:40 -04'00'

Anthony D'Ambrosi  
Volkswagen Group of America, Inc.  
Engineering and Environmental Office

Enclosure(s)

# US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

## General Information

**Date:** 06/01/2026

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

VGA

Manufacturer Name \*

Volkswagen Group of America

Contact Name \*

Gregory Allen

Contact Email Address \*

Gregory.Allen@vw.com

Contact Phone \*

2487544209

Calendar Year complete application submitted  
to EPA \*

2026

**PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2026, through December 31, 2026. The applicable fee is determined by the**

**calendar year in which the complete certification application is received, not the model year.**

Engine Family / Evaporative Family / Test Group \*

VVGAJ02.0A2H

### Certificate Request Type (Industry Sector Code)

Certificate Request Type \*

- ☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (Federal) (E, H)
- ☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- ☐ On-Highway Motorcycle (C)
- ☐ On-Highway HDV Evap (F)
- ☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
- ☐ Nonroad CI (L)
- ☐ Nonroad SI (B, S)
- ☐ Locomotive (G, K)
- ☐ All Nonroad Recreational, excluding Marine engines (X, Y)
- ☐ All Marine (Including IMO) (M, N, W)
- ☐ Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? \*

No

## Payment Information

Amount Owed

\$32,317.00

Payment Type \*

Offline ACH

## Comments

MY2027 Cert Fee for TG: VVG AJ02.0A2H

Pay.gov Tracking ID: 282RIF7P

Agency Tracking ID: 77405565807

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).

Robin Lang, Chief  
Emissions Certification and Compliance Division  
California Air Resources Board  
4001 Iowa Avenue  
Riverside, California 92507

Anthony D'Ambrosi Name  
Dir, Homologation Title  
EEO – Certification Department  
(248) 754-4396 Phone  
Tony.DAmbrosi@vw.com E-Mail  
June 30, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions  
Certification for Test Group VVGAJ02.0A2H with Evaporative Families:  
VVGAR0171ADF and VVGAR0171ADE.

Dear Ms. Lang,

We submit, with this letter, the model year 2027 Part 1 Application for Emissions  
Certification for the following Test Group:

| <u>Test Group</u> | <u>Standards</u>                        | <u>Sales Area</u>     |
|-------------------|-----------------------------------------|-----------------------|
| VVGAJ02.0A2H      | Tier 4 Interim Bin 30<br>LEV IV ULEV 25 | Federal<br>California |

This submission constitutes our final application and the request for issuance of the  
Executive Order.

If you have any questions regarding this information, please contact our office in Auburn  
Hills at (248) 754-4396.

Sincerely,

D'Ambrosi Anthony  
VWPKI  
5406C07D40F4331C  
Digitally signed by D'Ambrosi  
Anthony VWPKI  
5406C07D40F4331C  
Date: 2026.06.30 13:51:28 -04'00'

Anthony D'Ambrosi  
Volkswagen Group of America, Inc.  
Engineering and Environmental Office

Enclosure(s)



## **California ARB Information**

### **17.1 California Compliance Statements**

#### **Production Vehicle same as Test Vehicle Statement**

*The production vehicles represented by the particular engine families will be in all material respects of the same design as those for which vehicle approval is granted.*

#### **Smog Check Compliance Statement**

*Vehicles in this test group meet California's BAR Smog Check requirement in 16 CCR § 3340.42 by having a compliant OBD system (13 CCR § 1968.2) that will satisfy the California BAR-OIS OBD focused test method and the OBD pass-fail criteria in 16 CCR § 3340.42.2(c).*

#### **CARB Fill Pipe Bench Leak Rate Compliance Statement**

*In accordance with Section VI (Bench Leak Rate Specification) of the Air Resources Board document, "Specifications for fill pipes and openings of 2015 and subsequent model motor vehicle fuel tanks", amended on May 31, 2019, the VW Group hereby attests that, for the leak family(s) stated, the systems meet the specifications in Section VI when tested per the test procedure in section VIII.*

#### **Environmental Performance Label Information**

*VW Group applies new EPA label in lieu of the CA EP label.*

#### **California Emissions Warranty Statement**

*Please refer to California Emissions Warranty booklets located in Section 16 of the Common Section.*

#### **Adjustable Parameters/Tamper Resistance Statement**

*The emission control system contains no devices that contain parameters that are designed, and/or intended, to be physically capable of being adjusted*

#### **Partial Soak Standard(s)**

*In accordance with Title 13 CCR Chapter 1, Section 1961.4 (d)(2)(B), the Volkswagen Group hereby certifies that vehicles in this test group comply with the partial soak standards applicable in the aforementioned section.*

#### **LEV IV SC03 Compliance**

*In accordance with California Code of Regulations Title 13 Section 1961.4 (d)(4), Volkswagen Group attests that vehicles tested using the SC03 test procedure meet the NMOG+NO<sub>x</sub> and CO exhaust emissions requirements.*

## **17.2 Fill Pipe Specifications**

Please refer to the Section 16

## **17.3 Evaporative Emission Deterioration Program**

Please refer to Common Section Application

## **17.4 Assembly line NMOG / NMHC Factor**

**F<sub>NMOG</sub>:**            **Calculated per EPA 40CFR part 1066**

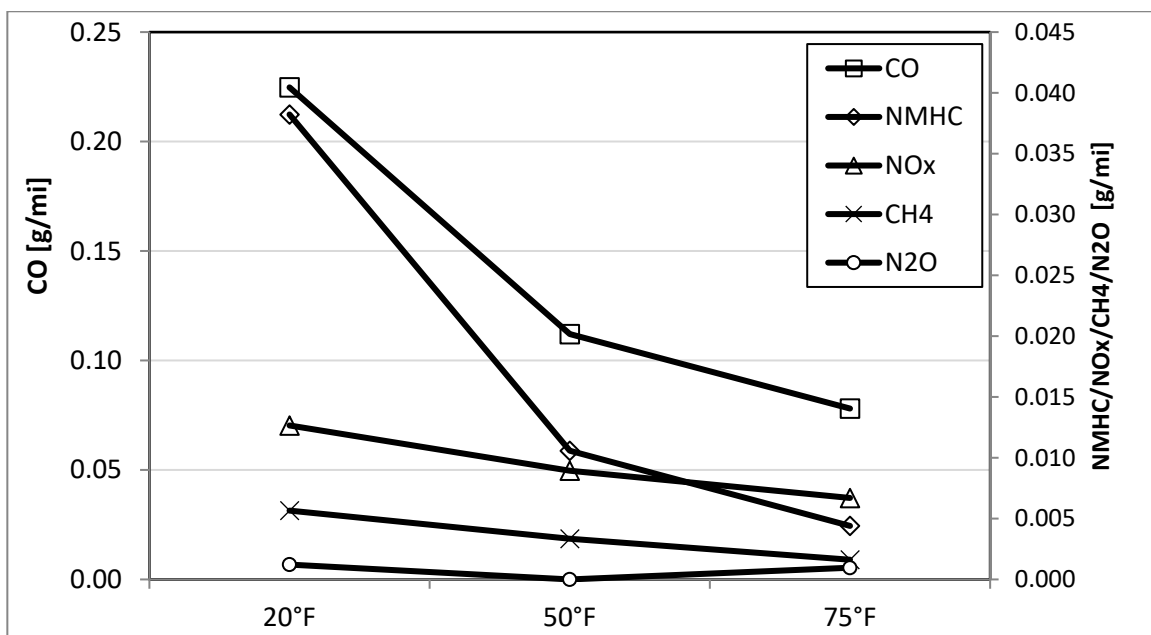
**F<sub>HCHO</sub>** (Indolene):

**F<sub>HCHO</sub>** (Phase II):

Compliance covered by statement according to regulations (see Section 8)

## 17.5 Continuity of Emissions

Q5, Q5 Sportback



## 17.6 Applicable Deterioration Factors

|      | THC<br>(g/mi) | NMHC<br>(g/mi) | NMOG<br>(g/mi) | NOx<br>(g/mi) | CO<br>(g/mi) | HCHO<br>(mg/mi) | PM<br>(g/mi) | NMOG+NOx<br>(g/mi) |
|------|---------------|----------------|----------------|---------------|--------------|-----------------|--------------|--------------------|
| 50k  | 0.002         | 0.0013         | 0.0014         | 0.0009        | 0.1          | -               | 0.0001       | 0.0023             |
| 150k | 0.0048*       | 0.0032*        | 0.0044         | 0.0027        | 0.3          | -               | 0.0001       | 0.0071             |

\*120k

## 21. Vehicle Emission Control Information Label

Q5, Q5 Sportback

|                                            |               |                                                                                    |
|--------------------------------------------|---------------|------------------------------------------------------------------------------------|
| <b>AUDI AG</b>                             |               |  |
| VEHICLE EMISSION<br>CONTROL INFORMATION    |               |                                                                                    |
| CONFORMS TO REGULATIONS: 2027 MY           |               |                                                                                    |
| U.S. EPA:                                  | BIN30 LDV     | OBD: CA II FUEL: GASOLINE                                                          |
| CALIFORNIA:                                | SULEV25 PC    | OBD: CA II FUEL: GASOLINE                                                          |
| NO ADJUSTMENTS NEEDED.                     |               |                                                                                    |
| DFI/AIR/TC/CAC/TWC(2)/GPF/<br>WR-HO2S/HO2S |               |                                                                                    |
| GROUP:                                     | VVG AJ02.0A2H |                                                                                    |
| EVAP:                                      | VVG AR0171ADE |                                                                                    |
|                                            |               | <div>22x22<br/>Dots</div>                                                          |
|                                            |               | 8B3 010 504 G                                                                      |

A5 quattro

|                                            |               |                                                                                      |
|--------------------------------------------|---------------|--------------------------------------------------------------------------------------|
| <b>AUDI AG</b>                             |               |  |
| VEHICLE EMISSION<br>CONTROL INFORMATION    |               |                                                                                      |
| CONFORMS TO REGULATIONS: 2027 MY           |               |                                                                                      |
| U.S. EPA:                                  | BIN30 LDT2    | OBD: CA II FUEL: GASOLINE                                                            |
| CALIFORNIA:                                | SULEV25 LDT   | OBD: CA II FUEL: GASOLINE                                                            |
| NO ADJUSTMENTS NEEDED.                     |               |                                                                                      |
| DFI/AIR/TC/CAC/TWC(2)/GPF/<br>WR-HO2S/HO2S |               |                                                                                      |
| GROUP:                                     | VVG AJ02.0A2H |                                                                                      |
| EVAP:                                      | VVG AR0171ADF |                                                                                      |
|                                            |               | <div>22x22<br/>Dots</div>                                                            |
|                                            |               | 8MA 010 504 G                                                                        |

## 21.2 Powertrain Control Module (PCM) Information

| Model              | Engine Code  | Diagnosis address | SW-Part number         | Cal ID                               | CVN                        | Comments      |
|--------------------|--------------|-------------------|------------------------|--------------------------------------|----------------------------|---------------|
| Q5<br>Q5 Sportback | DXCA<br>DVWA | 812C              | 0Z7.907.479.CN<br>1661 | BOOT0001687486EA<br>0Z7907CNA0BA4D80 | 68 74 86 EA<br>A0 BA 4D 80 | Certification |
|                    |              | 07C9              | 8MA.906.256.BR<br>0002 | 8MA062566FB00EB5                     | 6F B0 0E B5                |               |
|                    |              | 07D0              | V04.007.009.KG<br>1622 | V0407009399F6712                     | 39 9F 67 12                |               |
|                    |              | 07E7              | V04.007.008.RG<br>1618 | V0407008FE12408A                     | FE 12 40 8A                |               |
| A5 quattro         | DVWA         | 812C              | 0Z7.907.479.BC<br>1651 | BOOT0001687486EA<br>0Z7907BCEAB0F176 | 68 74 86 EA<br>EA B0 F1 76 | MY26          |
|                    |              | 07C9              | 4P5.906.256.G<br>0002  | 4P50625645F0C6D1                     | 45 F0 C6 D1                |               |
|                    |              | 07D0              | V04.007.009.JT<br>1618 | V0407009A6F06B7A                     | A6 F0 6B 7A                |               |
|                    |              | 07E7              | V04.007.008.QT<br>1614 | V040700854590F64                     | 54 59 0F 64                |               |

PCM Cal-ID / CVN is a combination of 812C main control unit drive, 07C9 / Application Sub Server 1 Power Train OBD, 07D0 / Application Sub Server 1 Chassis OBD and 07E7 / Application Sub Server 3 Chassis OBD SW-Part number and Version.

The Cal-ID / CVN is dependent on ordered vehicle equipment.

### 21.2.1 Airbag Control Module (ACM) Information

| Model              | Trans Code | SW-Part number      | Cal ID           | CVN         | Comments      |
|--------------------|------------|---------------------|------------------|-------------|---------------|
| Q5<br>Q5 Sportback | DL382-7A   | 85E.959.655.BD 1500 | 85E655BD150065CB | 02 DC 1B A1 | Certification |
| A5 quattro         |            | 85E.959.655.BE 1500 | 85E655BE150069CB | 03 E0 1B A5 |               |

### 21.2.2 Steering Column Control Module (SCCM) Information

| Model              | Trans Code | SW-Part number | Cal ID           | CVN         | Comments      |
|--------------------|------------|----------------|------------------|-------------|---------------|
| Q5<br>Q5 Sportback | DL382-7A   | -              | 85E129++00720000 | C0 48 00 92 | Certification |
| A5 quattro         |            | -              | 85E129++00720000 | C0 48 00 92 | Certification |

### 21.3 Engine Control Module (ECU) Information

| Model              | Trans Code | SW-Part number     | Cal ID           | CVN         | Comments      |
|--------------------|------------|--------------------|------------------|-------------|---------------|
| Q5<br>Q5 Sportback | DL382-7A   | 8MA.906.259.Q 0003 | 8MA259Q 0003BXAK | 18 B1 BE 63 | Certification |
|                    |            | 4P5.906.259.C 0002 | 4P5259C 0002BXAK | 19 9E 58 40 |               |
| A5 quattro         |            | 4P5.906.259.E 0003 | 4P5259E 0003BXAK | AF FD 5C C3 |               |

### 21.4 Transmission Control Module (TCU) Information

| Model              | Trans Code | SW-Part number      | Cal ID           | CVN         | Comments      |
|--------------------|------------|---------------------|------------------|-------------|---------------|
| Q5<br>Q5 Sportback | DL382-7A   | 8MA.927.153.AK 0001 | 8MA153AK0001U000 | 7E 03 42 A2 | Certification |
| A5 quattro         |            | 8B3.927.153.CH 0003 | 8B3153CH0003C000 | A9 06 7F D6 |               |

### 21.5 Gateway Control Module (GWM) Information

| Model              | Trans Code | SW-Part number      | Cal ID                                                                                                             | CVN                                                                                    | Comments      |
|--------------------|------------|---------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------|
| Q5<br>Q5 Sportback | DL382-7A   | 85F.907.468.AD 0372 | 85F468AD03722+1N<br>011NS02221++++++<br>021N000301000000<br>031N6245VA4NVA3N<br>041N524564011254<br>051NV17K++++++ | 1C 88 22 38<br>1E 66 A2 9A<br>82 80 A2 FC<br>16 D6 82 C9<br>E5 52 B5 17<br>BF 50 65 24 | Certification |
| A5 quattro         |            | 85F.907.468.P 0177  | 85F468P+01771+15<br>85F468P+01772+15<br>85F468P+01773+15<br>0115S01981++++++                                       | 61 AD 78 C1<br>63 EB C6 98<br>62 29 AC AF<br>B6 3A 41 6B                               |               |

|            |          |                    |                  |             |  |
|------------|----------|--------------------|------------------|-------------|--|
| A5 quattro | DL382-7A | 85F.907.468.P 0177 | 0215000301000000 | 45 57 0A 48 |  |
|            |          |                    | 0215000701000000 | F5 8E 79 CA |  |
|            |          |                    | 0215000309000000 | FE 8F A8 50 |  |
|            |          |                    | 0215000709000000 | 4E 56 DB D2 |  |
|            |          |                    | 0215000202000000 | BD 54 E9 4D |  |
|            |          |                    | 0215000602000000 | 0D 8D 9A CF |  |
|            |          |                    | 021500020A000000 | 74 7A16 5D  |  |
|            |          |                    | 021500060A000000 | C4 A3 65 DF |  |
|            |          |                    | 0215000105000000 | 40 D7 E2 85 |  |
|            |          |                    | 0215000505000000 | F0 0E 91 07 |  |
|            |          |                    | 021500010D000000 | A7 0F 35 13 |  |
|            |          |                    | 021500050D000000 | 17 D6 46 91 |  |
|            |          |                    | 0215040105000000 | 80 6E 88 13 |  |
|            |          |                    | 0215040505000000 | 30 B7 FB 91 |  |
|            |          |                    | 021504010D000000 | 67 B6 5F 85 |  |
|            |          |                    | 021504050D000000 | D7 6F 2C 07 |  |
|            |          |                    | 0215020105000000 | 20 8B 57 CE |  |
|            |          |                    | 0215020505000000 | 90 52 24 4C |  |
|            |          |                    | 021502010D000000 | C7 53 80 58 |  |
|            |          |                    | 021502050D000000 | 77 8A F3 DA |  |
|            |          |                    | 0215060105000000 | E0 32 3D 58 |  |
|            |          |                    | 0215060505000000 | 50 EB 4E DA |  |
|            |          |                    | 021506010D000000 | 07 EA EA CE |  |
|            |          |                    | 021506050D000000 | B7 33 99 4C |  |
|            |          |                    | 0215020004000000 | F6 7E 9C 4D |  |
|            |          |                    | 0215020404000000 | 46 A7 EF CF |  |
|            |          |                    | 021502000C000000 | 62 BC 32 51 |  |
|            |          |                    | 021502040C000000 | D2 65 41 D3 |  |
|            |          |                    | 0215060004000000 | 36 C7 F6 DB |  |
|            |          |                    | 0215060404000000 | 86 1E 85 59 |  |
|            |          |                    | 021506000C000000 | A2 05 58 C7 |  |
|            |          |                    | 021506040C000000 | 12 DC 2B 45 |  |
|            |          |                    | 02150A0004000000 | F1 40 8C 07 |  |
|            |          |                    | 02150A0404000000 | 41 99 FF 85 |  |
|            |          |                    | 02150A000C000000 | 65 82 22 1B |  |
|            |          |                    | 02150A040C000000 | D5 5B 51 99 |  |
|            |          |                    | 02150E0004000000 | 31 F9 E6 91 |  |
|            |          |                    | 02150E0404000000 | 81 20 95 13 |  |
|            |          |                    | 02150E000C000000 | A5 3B 48 8D |  |
|            |          |                    | 02150E040C000000 | 15 E2 3B 0F |  |
|            |          |                    | 03156244VA1XVA2J | 38 98 B2 B9 |  |
|            |          |                    | 03156144VA1XVA2J | D1 C6 FD 70 |  |
|            |          |                    | 03156444VA1XVA2J | D0 E9 2A FC |  |
|            |          |                    | 03156344VA1XVA2J | E5 86 43 F2 |  |
|            |          |                    | 03156544VA1WVA2I | 80 02 31 7F |  |
|            |          |                    | 03156544VA1VVA2I | 37 DA 7A 5C |  |
|            |          |                    | 03156544VA1UVA2I | 72 EF D2 F1 |  |
|            |          |                    | 0415524564011254 | 22 85 1D A3 |  |
|            |          |                    | 0415524564011251 | A3 A1 33 73 |  |
|            |          |                    | 0415524564011252 | FF 9F FC 99 |  |
|            |          |                    | 0415524564011253 | 06 B6 29 DF |  |
|            |          |                    | 0415523867061254 | 04 51 91 6B |  |
|            |          |                    | 0415524567091254 | 0D F2 39 F0 |  |
|            |          |                    | 0415524567071254 | EB 3A C5 F8 |  |

|            |          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|------------|----------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| A5 quattro | DL382-7A | 85F.907.468.P 0177 | 0515V0P6+++++++<br>0515V0PG+++++++<br>0515V0OV+++++++<br>0515V0OS+++++++<br>0515V0OT+++++++<br>0515V0OU+++++++<br>0515V0P8+++++++<br>0515V0P9+++++++<br>0515V0PA+++++++                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F8 84 B9 7A<br>A4 2F 3F 11<br>61 99 34 2F<br>81 6C 21 0F<br>D3 42 E7 66<br>A2 CD A7 E4<br>89 53 BF FA<br>88 16 58 34<br>4F 96 3C EA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|            |          | 85C.907.468.P 0177 | 85C468P+01771+14<br>85C468P+01772+14<br>85C468P+01773+14<br>0114S01981+++++                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16 AA 48 57<br>14 EC F6 0E<br>15 2E 9C 39<br>C1 3D 71 FD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|            |          |                    | 0214000301000000<br>0214000701000000<br>0214000309000000<br>0214000709000000<br>0214000202000000<br>0214000602000000<br>021400020A000000<br>021400060A000000<br>0214000105000000<br>0214000505000000<br>021400010D000000<br>021400050D000000<br>0214040105000000<br>0214040505000000<br>021404010D000000<br>021404050D000000<br>0214020105000000<br>0214020505000000<br>021402010D000000<br>021402050D000000<br>0214060105000000<br>0214060505000000<br>021406010D000000<br>021406050D000000<br>0214020004000000<br>0214020404000000<br>021402000C000000<br>021402040C000000<br>0214060004000000<br>0214060404000000<br>021406000C000000<br>021406040C000000<br>02140A0004000000<br>02140A0404000000<br>02140A000C000000<br>02140A040C000000<br>02140E0004000000<br>02140E0404000000<br>02140E000C000000<br>02140E040C000000 | 32 50 3A DE<br>82 89 49 5C<br>89 88 98 C6<br>39 51 EB 44<br>CA 53 D9 DB<br>7A 8A AA 59<br>03 7D 26 CB<br>B3 A4 55 49<br>37 D0 D2 13<br>87 09 A1 91<br>D0 08 05 85<br>60 D1 76 07<br>F7 69 B8 85<br>47 B0 CB 07<br>10 B1 6F 13<br>A0 68 1C 91<br>57 8C 67 58<br>E7 55 14 DA<br>B0 54 B0 CE<br>00 8D C3 4C<br>97 35 0D CE<br>27 EC 7E 4C<br>70 ED DA 58<br>C0 34 A9 DA<br>81 79 AC DB<br>31 A0 DF 59<br>15 BB 02 C7<br>A5 62 71 45<br>41 C0 C6 4D<br>F1 19 B5 CF<br>D5 02 68 51<br>65 DB 1B D3<br>86 47 BC 91<br>36 9E CF 13<br>12 85 12 8D<br>A2 5C 61 0F<br>46 FE D6 07<br>F6 27 A5 85<br>D2 3C 78 1B<br>62 E5 0B 99 |  |



|            |          |                    |                  |             |  |
|------------|----------|--------------------|------------------|-------------|--|
| A5 quattro | DL382-7A | 85C.907.468.P 0177 | 03146244VA1XVA2J | 4F 9F 82 2F |  |
|            |          |                    | 03146144VA1XVA2J | A6 C1 CD E6 |  |
|            |          |                    | 03146444VA1XVA2J | A7 EE 1A 6A |  |
|            |          |                    | 03146344VA1XVA2J | 92 81 73 64 |  |
|            |          |                    | 03146544VA1WVA2I | F7 05 01 E9 |  |
|            |          |                    | 03146544VA1VVA2I | 40 DD 4A CA |  |
|            |          |                    | 03146544VA1UVA2I | 05 E8 E2 67 |  |
|            |          |                    | 0414524564011254 | 55 82 2D 35 |  |
|            |          |                    | 0414524564011251 | D4 A6 03 E5 |  |
|            |          |                    | 0414524564011252 | 88 98 CC 0F |  |
|            |          |                    | 0414524564011253 | 71 B1 19 49 |  |
|            |          |                    | 0414523867061254 | 73 56 A1 FD |  |
|            |          |                    | 0414524567091254 | 7A F5 09 66 |  |
|            |          |                    | 0414524567071254 | 9C 3D F5 6E |  |
|            |          |                    | 0514V0P6+++++    | 8F 83 89 EC |  |
|            |          |                    | 0514V0PG+++++    | D3 28 0F 87 |  |
|            |          |                    | 0514V0OV+++++    | 16 9E 04 B9 |  |
|            |          |                    | 0514V0OS+++++    | F6 6B 11 99 |  |
|            |          |                    | 0514V0OT+++++    | A4 45 D7 F0 |  |
|            |          |                    | 0514V0OU+++++    | D5 CA 97 72 |  |
|            |          |                    | 0514V0P8+++++    | FE 54 8F 6C |  |
|            |          |                    | 0514V0P9+++++    | FF 11 68 A2 |  |
|            |          |                    | 0514V0PA+++++    | 38 91 0C 7C |  |

## 21.6 Brake System Control Module (BSCM) Information

| Model                   | Trans Code | SW-Part number     | Cal ID           | CVN         | Comments      |
|-------------------------|------------|--------------------|------------------|-------------|---------------|
| Q5 /<br>Q5<br>Sportback | DL382-7A   | 8B3.909.059.N 0555 | 8B3059N+975D1A19 | 97 5D 1A 19 | Certification |
| A5 quattro              |            | 8B3.909.059.N 0555 | 8B3059N+4B443D7C | 4B 44 3D 7C |               |

## 21.7 Vehicle Thermal Management Control Module (VTMC) Information

| Model                | Trans Code | SW-Part number     | Cal ID                                                                                                                                                                                                                                                                                                                                                               | CVN                                                                                                                                                                                                                                                                        | Comments      |
|----------------------|------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Q5 /<br>Q5 Sportback | DL382-7A   | 4M1.907.059.C 2616 | 4M1059C+54FEAFD8                                                                                                                                                                                                                                                                                                                                                     | 54 FE AF D8                                                                                                                                                                                                                                                                | Certification |
| A5 quattro           |            | 4M1.907.059.C 2616 | 4M1059C+5617C88F<br>4M1059C+657ACE9C<br>4M1059C+29E1F696<br>4M1059C+D97FF543<br>4M1059C+EA12F350<br>4M1059C+A689CB5A<br>4M1059C+AE4FCD50<br>4M1059C+9D22CB43<br>4M1059C+D1B9F349<br>4M1059C+6793A9CB<br>4M1059C+54FEAFD8<br>4M1059C+186597D2<br>4M1059C+2127F09C<br>4M1059C+124AF68F<br>4M1059C+5ED1CE85<br>4M1059C+E8FB9407<br>4M1059C+DB969214<br>4M1059C+970DAA1E | 56 17 C8 8F<br>65 7A CE 9C<br>29 E1 F6 96<br>D9 7F F5 43<br>EA 12 F3 50<br>A6 89 CB 5A<br>AE 4F CD 50<br>9D 22 CB 43<br>D1 B9 F3 49<br>67 93 A9 CB<br>54 FE AF D8<br>18 65 97 D2<br>21 27 F0 9C<br>12 4A F6 8F<br>5E D1 CE 85<br>E8 FB 94 07<br>DB 96 92 14<br>97 0D AA 1E |               |