

# **Application for Certification**

## **Part 1**

STATE OF CALIFORNIA  
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
CALIFORNIA AIR RESOURCES BOARD  
MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY

CARB USE ONLY

|              |              |
|--------------|--------------|
| Invoice Name | MSF250720-2  |
| Invoice Date | Mar 13, 2026 |

COMPANY INFORMATION

|                          |                    |
|--------------------------|--------------------|
| Company Name             | Ford Motor Company |
| Address                  | 1 American Road    |
| City                     | Dearborn           |
| State                    | Michigan           |
| Zip                      | 48126-2798         |
| Country                  | United States      |
| Contact Name             | Tina Oliver        |
| Contact Telephone Number | 313-3238938        |
| Contact Email            | toliver@ford.com   |
| CARB Customer Number     | CCAM000031         |

APPLICATION INFORMATION

| Row Number | Previous Unique Application Identifier | Previously Selected Category Type                                | Previously Selected Fee Type | Paid Amount  | Corrected Unique Application Identifier | Corrected Category Type                                          | Corrected Fee Type | Corrected Amount | Amount Due   |
|------------|----------------------------------------|------------------------------------------------------------------|------------------------------|--------------|-----------------------------------------|------------------------------------------------------------------|--------------------|------------------|--------------|
| 1          | VFMXT03.0TPC                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.0TPC                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 2          | VFMXT03.57AV                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.57AV                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 3          | VFMXT03.54HT                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.54HT                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 4          | VFMXT03.57AT                           | Light-duty vehicle test group and medium-duty vehicle test group | Partial Carry-Over           | \$ 25,155.00 | VFMXT03.57AT                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 25,154.00 |
| 5          | VFMXT02.34K2                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT02.34K2                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 6          | VFMXT03.0JP1                           | Light-duty vehicle test group and medium-duty vehicle test group | Partial Carry-Over           | \$ 25,155.00 | VFMXT03.0JP1                            | Light-duty vehicle test group and medium-duty vehicle test group | Partial Carry-Over | \$ 25,155.00     | \$ 0.00      |
|            |                                        | Light-duty vehicle test group and                                |                              |              |                                         | Light-duty vehicle test group and                                |                    |                  |              |
| 7          | VFMXT02.02JF                           | medium-duty vehicle test group                                   | Base                         | \$ 50,309.00 | VFMXT02.02JF                            | medium-duty vehicle test group                                   | Base               | \$ 50,309.00     | \$ 0.00      |
| 8          | VFMXT02.34K4                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT02.34K4                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 9          | VFMXT03.33F1                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.33F1                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 10         | VFMXT03.51F2                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.51F2                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 11         | VFMXT03.01HS                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.01HS                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 12         | VFMXT03.57A7                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.57A7                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 13         | VFMXT03.57A8                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.57A8                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 14         | VFMXT03.01EW                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.01EW                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 15         | VFMXT03.54JK                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.54JK                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 16         | VFMXT05.03DP                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT05.03DP                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 17         | VFMXT05.2AHS                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT05.2AHS                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 18         | VFMXT03.51F1                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT03.51F1                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
| 19         | VFMXT01.52X4                           | Light-duty vehicle test group and medium-duty vehicle test group | Base                         | \$ 50,309.00 | VFMXT01.52X4                            | Light-duty vehicle test group and medium-duty vehicle test group | Base               | \$ 50,309.00     | \$ 0.00      |
|            |                                        | Light-duty vehicle test                                          |                              |              |                                         | Light-duty vehicle test                                          |                    |                  |              |



|                                  |              |                       |                    |                 |                 |                       |                    |         |                 |
|----------------------------------|--------------|-----------------------|--------------------|-----------------|-----------------|-----------------------|--------------------|---------|-----------------|
| 46                               | VFMXV00.0PLR | application submitted | Full Refund (100%) | \$ 0.00         | VFMXV00.0PLR    | application submitted | Full Refund (100%) | \$ 0.00 | \$ 0.00         |
| Total Invoice (MSF250720-1) Paid |              |                       |                    | \$ 1,049,476.00 | Total Corrected |                       |                    |         | \$ 1,074,830.00 |
|                                  |              |                       |                    |                 | Total Due       |                       |                    |         | \$ 25,154.00    |

Notes  
 Changed fee type for VFMXT03.57AT from Partial Carry-Over to Base Fee.

I, David .. attest that any information provided is true, accurate, and complete.  
 (Responsible Party Signature Here)

**From:** [Landt, Michael \(M.R.\)](#)  
**To:** [Oliver, Tina \(T.A.\)](#); [Pietron, Mark \(M.S.\)](#)  
**Subject:** FW: MS Fee Payment Confirmation for Invoice MSF250720-2  
**Date:** Wednesday, April 8, 2026 3:37:22 PM  
**Attachments:** [MSF250720-2 - signed.pdf](#)

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Attached invoice has been received by CARB. Let me know if you need anything further.

Best Regards,

Mike Landt  
[mlandt1@ford.com](mailto:mlandt1@ford.com)  
248-302-5069

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**From:** noreply@salesforce.com <noreply@salesforce.com> **On Behalf Of** California Air  
**Sent:** Wednesday, April 8, 2026 1:06 PM  
**To:** Landt, Michael (M.R.) <mlandt1@ford.com>  
**Subject:** MS Fee Payment Confirmation for Invoice MSF250720-2

**WARNING: This message originated outside of Ford Motor Company**

Use caution when opening attachments, clicking links, or responding.

[Report Suspicious](#) 

Dear Tina Oliver

Attached is documentation for your MS Fee payment for Invoice Name MSF250720-2.  
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 – N/A
2. Date of Payment – 3/24/2026
3. Payment Status - Paid





## **FORD MOTOR COMPANY APPLICATION FOR CERTIFICATION - PART 1**

### **2027 Model Year**

|                                         |                                                                                                                                                                                                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Group:</b>                      | VFMXT03.57AV                                                                                                                                                                                                                                  |
| <b>Durability Group:</b>                | VFMXGPGNNE4D                                                                                                                                                                                                                                  |
| <b>Evap. Families:</b>                  | VFMXR0260NDV<br>VFMXR0200GDG                                                                                                                                                                                                                  |
| <b>Test Group Description:</b>          | 2027MY 3.5L Expedition (w/GPF)                                                                                                                                                                                                                |
| <b>Durability Group Description:</b>    | Four Stroke, Otto Cycle, Gasoline Fueled,<br>Turbocharged, Catalyst Code E                                                                                                                                                                    |
| <b>Carlines Covered:</b>                | EXPEDITION 2WD<br>EXPEDITION 4WD                                                                                                                                                                                                              |
| <b>Federal Applicable Standards:</b>    | Federal Exhaust - Interim Tier 4 Bin 50<br>Federal Evap - Tier 3<br>FTP CH <sub>4</sub> - 0.030 g/mi<br>FTP N <sub>2</sub> O - 0.010 g/mi<br>US06 PM - 0.006 g/mi<br>COLD CO - Cold NMHC - 0.4 g/mi<br>SFTP NMOG+NO <sub>x</sub> - 0.060 g/mi |
| <b>California Applicable Standards:</b> | California Exhaust - LEV-III ULEV50<br>California Evap - LEV-III<br>FTP PM - 0.001 g/mi<br>US06 PM - 0.006 g/mi<br>SFTP NMOG+NO <sub>x</sub> - 0.060 g/mi                                                                                     |

**Vehicles Tested:**

|                                                         |              |                                                                                        |              |
|---------------------------------------------------------|--------------|----------------------------------------------------------------------------------------|--------------|
| <b>4k Cert Emissions Vehicle:</b><br>TBD1-3.5-J-230 (0) |              | <b>4k Cert Emissions EVAP Vehicle (C/O):</b><br>JFC1-2.7-032/0 (23.9 Gal) KFMXR0200GDG |              |
| FTP E10 TN:                                             | TFMX10091441 | 2-Day EVAP:                                                                            | Attest       |
| HWY E10 TN:                                             | TFMX10091442 | 3-Day EVAP:                                                                            | JFMX10047781 |
| US06 E10 TN:                                            | TFMX10091444 | R/L:                                                                                   | JFMX10047782 |
| SC03 E10 TN:                                            | TFMX10091445 | ORVR:                                                                                  | JFMX10047788 |
| Cold CO E10 TN:                                         | TFMX10091446 | Linking Test:                                                                          | JFMX10047780 |
|                                                         |              | BETP:                                                                                  | JFMX10048127 |
|                                                         |              | <b>4k Cert Emissions EVAP Vehicle (C/O):</b><br>JFC1-5.0-J-029 JFMXR0260NDV            |              |
|                                                         |              | 2Day TN:                                                                               | JFMX10049672 |
|                                                         |              | 3Day TN:                                                                               | JFMX10049673 |
|                                                         |              | RL TN:                                                                                 | JFMX10049674 |
|                                                         |              | ORVR TN:                                                                               | JFMX10049676 |
|                                                         |              | BETP:                                                                                  | JFMX10049769 |
|                                                         |              | FTP Linking Test:                                                                      | JFMX10048057 |

**Release Date: July 20, 2026**

**For Questions, Contact:**

**Mark Pietron, [mpietron@ford.com](mailto:mpietron@ford.com) (313) 805-7139**



## **Part 1 Application Index**

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## **Part 2 Application Index** **(Running change updates)**



## **SECTION 2**

### **Durability Group Description**

For a description of the Durability Group for this test group refer to Section 16.00.00.00 of the Common Section.



## **SECTION 3**

### **Evaporative/Refueling Family Description**

03.00.00.00

## Evaporative Family and Calibration Parameters

Evaporative Family Name: VFMXR0200GDG

2027 3.5L GTPFDI Expedition / Navigator (24.7 gallon fuel tank, Tank Code 'US')

| <u>Emission Component</u>                                  | <u>Sensed Parameter</u> | <u>Controlled Parameter</u>                                  | <u>Justification</u>           | <u>Calibration Specification</u>                                 |
|------------------------------------------------------------|-------------------------|--------------------------------------------------------------|--------------------------------|------------------------------------------------------------------|
| Capless Insert<br>MU5A-9D000-CB                            | None                    | Fuel Tank Vapor                                              | Operates in EVAP and / or ORVR |                                                                  |
| Fuel Filler Pipe<br>Without Capless Insert<br>RL14-9032-AC | None                    | Vapor Recirculation,<br>Liquid Fuel Flow,<br>Fuel Tank Vapor | Operates in EVAP and / or ORVR | 2.7 mm Diameter<br>Recirculation Orifice                         |
| Fuel Limiting Vent Valve<br>JL14-9B190-AA                  | Fuel Tank Vapor         | Fuel Tank Vapor                                              | Operates in EVAP and / or ORVR | Main: 12.7mm<br>Diameter                                         |
| Grade Vent Valve<br>JL14-9B593-BA (2 per tank)             | Fuel Tank Vapor         | Fuel Tank Vapor                                              | Operates in EVAP               | 2.25mm Orifice                                                   |
| Fuel Tank Pressure Sensor<br>9U5A-9C052-BC                 | Fuel Tank Pressure      | None                                                         | Operates in FTP                |                                                                  |
| Carbon Canister<br>JL34-9D653-AC                           | None                    | Fuel Tank Vapor                                              | Operates in EVAP and/or ORVR   | 200g BWC<br>3.5 liter Total Volume<br>(includes 0.066L<br>Bleed) |
| Canister Purge Valve (CPV)<br>EU5A-9G866-CE                | Signal from PCM         | Vacuum to canister                                           | Operates in FTP                | 100 SLPM                                                         |
| Vapor Blocking Valve (VBV)<br>GU5A-9G712-CC                | None                    | Fuel Tank Vapor                                              | Operates in FTP                |                                                                  |
| AIS Hydrocarbon Trap<br>GN15-9T303-AA                      | None                    | Fuel Vapor                                                   | Operates in EVAP               |                                                                  |

Test Group:  
Issued: 12/12/2025  
Revised:

03.00.01.00

## Evaporative Family and Calibration Parameters

Evaporative Family Name: VFMXR0260NDV

2027 3.5L GTPFDI Expedition MAX / Navigator L (30.0 gallon fuel tank, Tank Code 'UL')

| <u>Emission Component</u>                                  | <u>Sensed Parameter</u> | <u>Controlled Parameter</u>                                  | <u>Justification</u>           | <u>Calibration Specification</u>                                     |
|------------------------------------------------------------|-------------------------|--------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------|
| Capless Insert<br>MU5A-9D000-CB                            | None                    | Fuel Tank Vapor                                              | Operates in EVAP and / or ORVR |                                                                      |
| Fuel Filler Pipe<br>Without Capless Insert<br>RL14-9032-AC | None                    | Vapor Recirculation,<br>Liquid Fuel Flow,<br>Fuel Tank Vapor | Operates in EVAP and / or ORVR | 2.7 mm Diameter<br>Recirculation Orifice                             |
| Fuel Limiting Vent Valve<br>JL14-9B190-AA                  | Fuel Tank Vapor         | Fuel Tank Vapor                                              | Operates in EVAP and / or ORVR | Main: 12.7mm<br>Diameter                                             |
| Grade Vent Valve<br>JL14-9B593-BA (2 per tank)             | Fuel Tank Vapor         | Fuel Tank Vapor                                              | Operates in EVAP               | 2.25mm Orifice                                                       |
| Fuel Tank Pressure Sensor<br>9U5A-9C052-BC                 | Fuel Tank Pressure      | None                                                         | Operates in FTP                |                                                                      |
| Carbon Canister<br>JL34-9D653-CD                           | None                    | Fuel Tank Vapor                                              | Operates in EVAP and/or ORVR   | 260g BWC<br>3.8 liter Total Volume<br>(includes 3 x 0.048L<br>Bleed) |
| Canister Purge Valve (CPV)<br>EU5A-9G866-CE                | Signal from PCM         | Vacuum to canister                                           | Operates in FTP                | 100 SLPM                                                             |
| Vapor Blocking Valve (VBV)<br>GU5A-9G712-CC                | None                    | Fuel Tank Vapor                                              | Operates in FTP                |                                                                      |
| AIS Hydrocarbon Trap<br>GN15-9T303-AA                      | None                    | Fuel Vapor                                                   | Operates in EVAP               |                                                                      |

Test Group:  
Issued: 12/12/2025  
Revised:



## **SECTION 4**

### **Durability Procedure Description**

For a description of the Durability Procedure,  
refer to Section 16.00.00.00 of the Common Section.



## **SECTION 5**

### **Test Group Description**

For a description of this Test Group, refer to the Cover Page (00.00.00.00) and to the Test Results Section (07.00.00.00) of this application.



## **SECTION 6**

### **Test Vehicle Description**

For a description of the Test Vehicles utilized in this Test Group,  
refer to Section 07.00.00.00 of this application.



## **SECTION 7**

# **EPA Certification Summary Information Report (Test Results)**

## Certification Summary Information Report

|                                   |                    |                                     |                        |
|-----------------------------------|--------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Ford Motor Company | <b>Manufacturer Code</b>            | FMX                    |
| <b>Test Group</b>                 | VFMXT03.57AV       | <b>Evaporative/Refueling Family</b> | VFMXR0200GDG           |
| <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> | 05/01/2026 09:41:26 AM |
| <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 & ported injection | No                           |

  

|                                                     |                                                                                                                                      |                                                            |              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | No                                                                                                                                   |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                                                                                                                                   | <b>Rechargeable Energy Storage System Indicator</b>        | No           |
| <b>Multiple Fuel Combustion</b>                     | --                                                                                                                                   | <b>Off-board Charge Capable Indicator</b>                  | No           |
| <b>Fuel Cell Indicator</b>                          | No                                                                                                                                   | <b>EPA Vehicle Class</b>                                   | LDT4         |
| <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> | No           |
| <b>Durability Group Name</b>                        | VFMXGPGNNE4D                                                                                                                         | <b>Durability Group Equivalency Factor</b>                 | 1.0          |
| <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>              | 07/20/2026                                                                                                                           | <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>  | Yes                                                                                                                                  |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                                                                                                                                 | <b>OBD Demonstration Vehicle Test Group</b>                | VFMXT03.57AV |
| <b>Test Group OBD Compliance Level</b>              | Partial - with deficiencies                                                                                                          | <b>Number of Test Group OBD Deficiencies</b>               | 2            |
| <b>OBD Deficiencies Comments</b>                    | --                                                                                                                                   |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | E10 City Litmus Value = 13.4 mpg, City Litmus Threshold = 13.2 mpg, E10 HWY Litmus Value = 18.1 mpg, HWY Litmus Threshold = 17.9 mpg |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                                                                                                                                   |                                                            |              |

## Certification Summary Information Report

|                                                                             |                                                                                                                            |                                                           |                                     |                         |                     |                     |                       |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------|-------------------------|---------------------|---------------------|-----------------------|
| <b>Test Group</b>                                                           | VFMXT03.57AV                                                                                                               | <b>Evaporative/Refueling Family</b>                       | VFMXR0200GDG                        |                         |                     |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |                                                                                                                            |                                                           |                                     |                         |                     |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | New                                                                                                                        | <b>Submission/Correction Date</b>                         | 01/21/2026 01:37:18 PM              |                         |                     |                     |                       |
| <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>                     | Plastic                             |                         |                     |                     |                       |
| <b>Fill Pipe Seal Type</b>                                                  | Liquid seal                                                                                                                |                                                           |                                     |                         |                     |                     |                       |
| <b>Air Intake System Vapor Storage Device?</b>                              | Yes                                                                                                                        | <b>Air Intake System Vapor Storage Device Description</b> | Hydrocarbon trap                    |                         |                     |                     |                       |
| <b>Fuel System Vapor Storage Canister?</b>                                  | Yes                                                                                                                        | <b>Other Vapor Storage</b>                                | 3.4L 3-port Rect+ 0.066L Bleed      |                         |                     |                     |                       |
| <b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b> | 200                                                                                                                        | <b>Number of Primary Canisters</b>                        | 1                                   |                         |                     |                     |                       |
| <b>Number of Bleed Canisters</b>                                            | 1                                                                                                                          | <b>Bleed Canister Total Working Capacity (grams)</b>      | 1                                   |                         |                     |                     |                       |
| <b>Mfr Evaporative/Refueling Family Comments</b>                            | Vehicle Lines Covered : 5.0L PFDI F-150, 3.5L GTPFDI F-150 Police Responder, 3.5L GTPFDI Expedition, 3.5L GTPFDI Navigator |                                                           |                                     |                         |                     |                     |                       |
| <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>      |                         |                     |                     |                       |
| VFMXR0200GDG-001                                                            | 50 State                                                                                                                   | 0.02                                                      | VFMXR0200GDG-001                    |                         |                     |                     |                       |
| <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> |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                   | 240 - EXPEDITION 2WD                                      | California + CAA Section 177 states | 2-Wheel Drive, Rear     | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                   | 241 - EXPEDITION 4WD                                      | Federal                             | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                   | 240 - EXPEDITION 2WD                                      | Federal                             | 2-Wheel Drive, Rear     | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                   | 241 - EXPEDITION 4WD                                      | California + CAA Section 177 states | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| <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>                                             | V-shaped engine                                                                                                            | <b>Mfr Engine Block Arrangement Description</b>           | --                                  |                         |                     |                     |                       |
| <b>Camless Valvetrain Indicator</b>                                         | No                                                                                                                         | <b>Oil Viscosity/Classification</b>                       | SAE 5W-30 / ILSAC GF-7              |                         |                     |                     |                       |
| <b>Number of Cylinders/Rotors</b>                                           | 6                                                                                                                          | <b>Mechanically Variable Compression Ratio Indicator</b>  | N                                   |                         |                     |                     |                       |

## Certification Summary Information Report

|                                                  |                     |                                                                               |                           |
|--------------------------------------------------|---------------------|-------------------------------------------------------------------------------|---------------------------|
| <b>Test Group</b>                                | VFMXT03.57AV        | <b>Evaporative/Refueling Family</b>                                           | VFMXR0200GDG              |
| <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  | Palladium + Rhodium                                                           | Ceramic                   |
| 3                                                | Other               | Palladium + Rhodium                                                           | Ceramic                   |
| 4                                                | Other               | Palladium + Rhodium                                                           | Ceramic                   |
| <b>Mfr After Treatment Device (ATD) Comments</b> |                     |                                                                               |                           |
|                                                  |                     | ATD3 and ATD4 are PD+RH TWC + Gasoline Particulate Filter with no PGM loading |                           |
| <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>              | 3.5                 | <b>Engine Rated Horsepower</b>                                                | 380                       |
| <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>                                       | 2                         |
| <b>Air Aspiration Device Configuration</b>       | Parallel            | <b>Charge Air Cooler Type</b>                                                 | Air                       |
| <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>  | TiVCT               |                                                                               |                           |
| <b>Variable Valve Lift?</b>                      | No                  |                                                                               |                           |
| <b>Variable Valve Lift System Description</b>    | --                  |                                                                               |                           |
| <b>Number of Knock Sensors</b>                   | 2                   | <b>Number of Air/Fuel Sensors</b>                                             | 4                         |
| <b>Air/Fuel Sensor # 1 Type</b>                  | Heated air fuel     | <b>Air/Fuel Sensor # 1 Description</b>                                        | --                        |
| <b>Air/Fuel Sensor # 2 Type</b>                  | Heated air fuel     | <b>Air/Fuel Sensor # 2 Description</b>                                        | --                        |
| <b>Air/Fuel Sensor # 3 Type</b>                  | Heated oxygen       | <b>Air/Fuel Sensor # 3 Description</b>                                        | --                        |
| <b>Air/Fuel Sensor # 4 Type</b>                  | Heated oxygen       | <b>Air/Fuel Sensor # 4 Description</b>                                        | --                        |
| <b>Mfr Air/Fuel Sensor Comments</b>              | --                  |                                                                               |                           |
| <b>Exhaust Gas Recirculation</b>                 | Yes                 | <b>Cooled Exhaust Gas Recirculation</b>                                       | Yes                       |
| <b>EGR Type</b>                                  | Electronic/Electric | <b>Exhaust Gas Recirculation Description if 'Other'</b>                       | --                        |
| <b>Closed Loop Air Injection System</b>          | No                  |                                                                               |                           |
| <b>Air Injection Type</b>                        | Not Applicable      | <b>Air Injection Type if 'Other'</b>                                          | --                        |
| <b>Mfr Engine Configuration Comments</b>         | Expedition          |                                                                               |                           |

Certification Summary Information Report

|                                    |  |              |              |              |              |                              |                       |                           |                          |                              |                       |
|------------------------------------|--|--------------|--------------|--------------|--------------|------------------------------|-----------------------|---------------------------|--------------------------|------------------------------|-----------------------|
| Test Group                         |  | VFMXT03.57AV |              |              |              | Evaporative/Refueling Family |                       |                           | VFMXR0200GDG             |                              |                       |
| Official Test Numbers              |  |              |              |              |              |                              |                       |                           |                          |                              |                       |
| Test Group Fuel                    |  | FTP          | US06         | SC03         | Cold CO      | Highway                      | EPA City Litmus Value | EPA City Litmus Threshold | EPA Highway Litmus Value | EPA Highway Litmus Threshold | CREE Weighting Factor |
| Gasoline                           |  | TFMX10091441 | TFMX10091444 | TFMX10091445 | TFMX10091446 | TFMX10091442                 | 13.5                  | 14.0                      | 18.4                     | 18.9                         | --                    |
| SFTP LEV-III Official Test Numbers |  |              |              |              |              |                              |                       |                           |                          |                              |                       |
| Test Group Fuel                    |  | FTP          |              | US06         |              | SC03                         |                       |                           |                          |                              |                       |
| Gasoline                           |  | TFMX10091441 |              | TFMX10091444 |              | TFMX10091445                 |                       |                           |                          |                              |                       |

## Certification Summary Information Report

| <b>Test Group</b>                                                                    | VFMXT03.57AV                                                                                                                                                                  | <b>Evaporative/Refueling Family</b>                   | VFMXR0200GDG            |      |   |                   |          |  |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|------|---|-------------------|----------|--|
| <b>Emission Data Vehicle Information</b>                                             |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Vehicle ID / Configuration</b>                                                    | JFC1-2.7-032 / 0                                                                                                                                                              | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |      |   |                   |          |  |
| <b>Original Test Group Name</b>                                                      | JFMXT02.73JK                                                                                                                                                                  | <b>Original Evaporative/Refueling Family</b>          | JFMXR0200GDG            |      |   |                   |          |  |
| <b>Original Test Vehicle Model Year</b>                                              | 2018                                                                                                                                                                          |                                                       |                         |      |   |                   |          |  |
| <b>Vehicle Model</b>                                                                 |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Represented Test Vehicle Make</b>                                                 | Ford                                                                                                                                                                          | <b>Represented Test Vehicle Model</b>                 | F-150                   |      |   |                   |          |  |
| <b>Leak Family Details</b>                                                           |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Leak Family Identifier</b>                                                        | 001                                                                                                                                                                           | <b>Leak Family Name</b>                               | JFMXR0200GDG-001        |      |   |                   |          |  |
| <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>                     | 1.03                    |      |   |                   |          |  |
| <b>Odometer Correction Sign</b>                                                      | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                               |                                                       |                         |      |   |                   |          |  |
| <b>Odometer Correction Units</b>                                                     | Miles                                                                                                                                                                         |                                                       |                         |      |   |                   |          |  |
| <b>Engine Code</b>                                                                   | JTFCWQNB05                                                                                                                                                                    | <b>Rated Horsepower</b>                               | 325                     |      |   |                   |          |  |
| <b>Displacement (liters)</b>                                                         | 2.7                                                                                                                                                                           |                                                       |                         |      |   |                   |          |  |
| <b>Air Aspiration Method</b>                                                         | Turbocharged                                                                                                                                                                  | <b>Air Aspiration Method, if 'Other'</b>              |                         |      |   |                   |          |  |
| <b>Number of Air Aspiration Devices</b>                                              | 2                                                                                                                                                                             | <b>Air Aspiration Device Configuration</b>            | Parallel                |      |   |                   |          |  |
| <b>Charge Air Cooler Type</b>                                                        | Air                                                                                                                                                                           | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive |      |   |                   |          |  |
| <b>Shift Indicator Light Usage</b>                                                   | Not equipped                                                                                                                                                                  | <b>Aged Emission Components</b>                       | 4,000 (mi)              |      |   |                   |          |  |
| <b>Curb Weight (lbs)</b>                                                             | 4903                                                                                                                                                                          | <b>Equivalent Test Weight (pounds)</b>                | 5250                    |      |   |                   |          |  |
| <b>GVWR (lbs)</b>                                                                    | 7000                                                                                                                                                                          | <b>N/V Ratio</b>                                      | 25.7                    |      |   |                   |          |  |
| <b>Axle Ratio</b>                                                                    | 3.73                                                                                                                                                                          |                                                       |                         |      |   |                   |          |  |
| <b>Transmission Type</b>                                                             | Semi-Automatic                                                                                                                                                                | <b># of Transmission Gears</b>                        | 10                      |      |   |                   |          |  |
| <b>Transmission Lockup</b>                                                           | Yes                                                                                                                                                                           | <b>Creep Gear</b>                                     | No                      |      |   |                   |          |  |
| <b>Dynamometer Coefficients:</b>                                                     |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
|                                                                                      | <b>Target Coefficients</b>                                                                                                                                                    |                                                       | <b>Set Coefficients</b> |      |   |                   |          |  |
| <b>Coefficient Category</b>                                                          | <b>A (lbf)</b>                                                                                                                                                                | <b>B (lbf/mph)</b>                                    | <b>C (lbf/mph**2)</b>   |      |   |                   |          |  |
| <b>City/Highway/Evap</b>                                                             | 41.31                                                                                                                                                                         | 0.1955                                                | 0.03765                 |      |   |                   |          |  |
|                                                                                      | 20.655                                                                                                                                                                        | 0.0391                                                | 0.03765                 |      |   |                   |          |  |
| <b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b> |                                                                                                                                                                               |                                                       |                         |      |   |                   |          |  |
|                                                                                      | 19.4                                                                                                                                                                          |                                                       |                         |      |   |                   |          |  |
| <b>Emission Control Device Comments</b>                                              | T18-0011/12/13-01 T3B70 L3B70                                                                                                                                                 |                                                       |                         |      |   |                   |          |  |

## Certification Summary Information Report

|                                    |                                                |                              |              |
|------------------------------------|------------------------------------------------|------------------------------|--------------|
| Test Group                         | VFMXT03.57AV                                   | Evaporative/Refueling Family | VFMXR0200GDG |
| Manufacturer Test Vehicle Comments | 2.7L GTPFDI F-150 4X4 SUPER CAB-MAX SMALL TANK |                              |              |

## Certification Summary Information Report

| Test Group                                     | VFMXT03.57AV                              | Evaporative/Refueling Family          | VFMXR0200GDG                                        |
|------------------------------------------------|-------------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test #</b>                                  | <b>JFMX10047780</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>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 03/23/2017                                | <b>Fuel</b>                           | N/A                                                 |
| <b>Fuel Batch ID</b>                           | 373-B                                     | <b>Fuel Calibration Number</b>        | 13                                                  |
| <b>Vehicle Class</b>                           | N/A                                       | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | APTL                                      |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                        |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 4075                                      | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | No                                        | <b>Diesel Adjustment Factor Usage</b> | --                                                  |
| <b>State of Charge Delta</b>                   | No                                        |                                       |                                                     |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | <b>Road Speed Fan Usage</b>           | No                                                  |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 447.6404109           | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 19.3154956            | 19.3154956                                               |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 415.2761362           | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 20.9112862            | 20.9112862                                               |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 391.2054303           | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 22.1421459            | 22.1421459                                               |
| METHANE (CH4 - Methane)                            | 0.0146173             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.30131              | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.738517             | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.229238             | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 20.8849977            | 20.8849977                                               |
| NOX (Nitrogen Oxide)                               | 0.0115416             | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0015267             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0170713             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.018781              | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0311041             | --                                                       |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 416                   | 999                             |
| Optional Carbon-Related Exhaust Emissions | 417                   | 999                             |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VFMXT03.57AV | <b>Evaporative/Refueling Family</b> | VFMXR0200GDG |
|-------------------|--------------|-------------------------------------|--------------|

  

|  |                         |                              |  |                              |
|--|-------------------------|------------------------------|--|------------------------------|
|  | <b>Test Result Name</b> | <b>Unrounded Test Result</b> |  | <b>Verify Calculated CO2</b> |
|  | <b>Carbon dioxide</b>   | 415.3632963                  |  | --                           |

**Manufacturer Test Comments**      J032 FTP, NMOG = 1.04 \* NMHCr

  

|                                                |                                                                   |                                       |                                                    |
|------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>JFMX10047781</b>                                               | <b>Test Procedure</b>                 | <b>34 - Federal fuel 3-day evap</b>                |
| <b>Exhaust Test # for this Evap Test</b>       | JFMX10047780                                                      | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 03/09/2017                                                        | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | --                                                                | <b>Fuel Calibration Number</b>        | --                                                 |
| <b>Vehicle Class</b>                           | N/A                                                               | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                                              |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3992                                                              | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | No                                                                |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)                         | <b>Road Speed Fan Usage</b>           | No                                                 |

  

**Test Results**

|  |                                                                  |                              |  |                                                                 |
|--|------------------------------------------------------------------|------------------------------|--|-----------------------------------------------------------------|
|  | <b>Test Result Name</b>                                          | <b>Unrounded Test Result</b> |  | <b>Verify Calculated FE Equivalent Value (miles per gallon)</b> |
|  | <b>OMHCE (Organic material Hydrocarbon Equivalent)</b>           | 0.2989                       |  | --                                                              |
|  | <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b> | 0.2989                       |  | --                                                              |

  

**Manufacturer Test Comments**      J032 RL & 3-Day SHED

  

| 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 | 0.2989         | 0.0000 | 0.299               | 0.500    | Pass      |
| CA                   | 150,000 miles | California LEV-III Zero Evap (Option 2) | OMHCE          | 0.2989         | 0.0000 | 0.299               | 0.500    | Pass      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                   | VFMXT03.57AV                                                      | <b>Evaporative/Refueling Family</b>                      | VFMXR0200GDG                                       |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|-------------------------------------------------|------------------|----|-----------------------------------------------------------|---|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                       | <b>JFMX10047782</b>                                               | <b>Test Procedure</b>                                    | <b>32 - Federal Fuel Running Loss</b>              |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                            | JFMX10047780                                                      | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                    | 03/09/2017                                                        | <b>Fuel</b>                                              | Gasoline                                           |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                | --                                                                | <b>Fuel Calibration Number</b>                           | --                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                | N/A                                                               | <b>DF Type</b>                                           | Mfr. Determined                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                           | APTL                                                              |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                      | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                  | 4004                                                              | <b>Odometer Units</b>                                    | M                                                  |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                | No                                                                | <b>Diesel Adjustment Factor Usage</b>                    | --                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                        | No                                                                |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                         | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)                         | <b>Road Speed Fan Usage</b>                              | No                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0</td> <td>--</td> </tr> </tbody> </table> |                                                                   |                                                          |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | OMHCE (Organic material Hydrocarbon Equivalent) | 0                | -- | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                    | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| OMHCE (Organic material Hydrocarbon Equivalent)                                                                                                                                                                                                                                                                                                                                                     | 0                                                                 | --                                                       |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                                                                                                                                           | 0                                                                 | --                                                       |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                   |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| Running Loss Test                                                                                                                                                                                                                                                                                                                                                                                   |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |   |    |
| <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                                     | 0.000                 | 0.000                 | 0.00                                                     | 0.05                                            | Pass             |    |                                                           |   |    |
| CA                                                                                                                                                                                                                                                                                                                                                                                                  | 150,000 miles                                                     | California LEV-III Zero Evap (Option 2)                  | OMHCE                                              | 0.000                 | 0.000                 | 0.00                                                     | 0.05                                            | Pass             |    |                                                           |   |    |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                           | VFMXT03.57AV                                                      | <b>Evaporative/Refueling Family</b>                      | VFMXR0200GDG                                       |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|-------------------------------------------------|------------------|----|-----------------------------------------------------------|-------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                               | <b>JFMX10047788</b>                                               | <b>Test Procedure</b>                                    | <b>24 - Federal fuel refueling test (ORVR)</b>     |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                    | JFMX10047780                                                      | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                            | 03/20/2017                                                        | <b>Fuel</b>                                              | Gasoline                                           |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                        | --                                                                | <b>Fuel Calibration Number</b>                           | --                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                        | N/A                                                               | <b>DF Type</b>                                           | Mfr. Determined                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                   | APTL                                                              |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                              | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                          | 4039                                                              | <b>Odometer Units</b>                                    | M                                                  |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                        | No                                                                | <b>Diesel Adjustment Factor Usage</b>                    | --                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                | No                                                                |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                 | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)                         | <b>Road Speed Fan Usage</b>                              | No                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.009</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.009</td> <td>--</td> </tr> </tbody> </table> |                                                                   |                                                          |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | OMHCE (Organic material Hydrocarbon Equivalent) | 0.009            | -- | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.009 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                            | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| OMHCE (Organic material Hydrocarbon Equivalent)                                                                                                                                                                                                                                                                                                                                                             | 0.009                                                             | --                                                       |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                                                                                                                                                   | 0.009                                                             | --                                                       |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                           |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| ORVR Test                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |       |    |
| <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                                     | 0.009                 | 0.013                 | 0.02                                                     | 0.20                                            | Pass             |    |                                                           |       |    |
| CA                                                                                                                                                                                                                                                                                                                                                                                                          | 150,000 miles                                                     | California LEV-III Zero Evap (Option 2)                  | OMHCE                                              | 0.009                 | 0.013                 | 0.02                                                     | 0.20                                            | Pass             |    |                                                           |       |    |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                   | VFMXT03.57AV                                                      | <b>Evaporative/Refueling Family</b>                      | VFMXR0200GDG                                       |                       |                       |                                                          |                                     |                  |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|-------------------------------------|------------------|----|
| <b>Test #</b>                                                                                                                                                                                                                                       | <b>JFMX10048127</b>                                               | <b>Test Procedure</b>                                    | <b>65 - Evap Canister Bleed Test</b>               |                       |                       |                                                          |                                     |                  |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                            | --                                                                | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                       |                       |                                                          |                                     |                  |    |
| <b>Test Date</b>                                                                                                                                                                                                                                    | 03/09/2017                                                        | <b>Fuel</b>                                              | Gasoline                                           |                       |                       |                                                          |                                     |                  |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                | --                                                                | <b>Fuel Calibration Number</b>                           | --                                                 |                       |                       |                                                          |                                     |                  |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                | N/A                                                               | <b>DF Type</b>                                           | Mfr. Determined                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                           | APTL                                                              |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                      | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                  | 4017                                                              | <b>Odometer Units</b>                                    | M                                                  |                       |                       |                                                          |                                     |                  |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                | No                                                                | <b>Diesel Adjustment Factor Usage</b>                    | --                                                 |                       |                       |                                                          |                                     |                  |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                        | No                                                                |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                         | Used Part 86 (+/- 2 mph, +/- 1 sec)                               | <b>Road Speed Fan Usage</b>                              | No                                                 |                       |                       |                                                          |                                     |                  |    |
| <b>Test Results</b>                                                                                                                                                                                                                                 |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td><b>HC-TOTAL (Total Hydrocarbon)</b></td> <td>0.01</td> <td>--</td> </tr> </table> |                                                                   |                                                          |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | <b>HC-TOTAL (Total Hydrocarbon)</b> | 0.01             | -- |
| Test Result Name                                                                                                                                                                                                                                    | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>HC-TOTAL (Total Hydrocarbon)</b>                                                                                                                                                                                                                 | 0.01                                                              | --                                                       |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                   |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| BETP test used Method A BETP Testing is THC Only (not OMHCE/THCE)                                                                                                                                                                                   |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <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                                           | 0.0100                | 0                     | 0.010                                                    | 0.020                               | Pass             |    |
| CA                                                                                                                                                                                                                                                  | 150,000 miles                                                     | California LEV-III Zero Evap (Option 2)                  | HC-TOTAL                                           | 0.0100                | 0                     | 0.010                                                    | 0.020                               | Pass             |    |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VFMXT03.57AV | <b>Evaporative/Refueling Family</b> | VFMXR0200GDG |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |                    |                                                  |              |
|-----------------------------------------|--------------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | TBD1-3.5-J-230 / 0 | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | TFMXT03.57AV       | <b>Original Evaporative/Refueling Family</b>     | TFMXR0260NDV |
| <b>Original Test Vehicle Model Year</b> | 2026               |                                                  |              |

**Vehicle Model**

|                                      |      |                                       |            |
|--------------------------------------|------|---------------------------------------|------------|
| <b>Represented Test Vehicle Make</b> | FORD | <b>Represented Test Vehicle Model</b> | EXPEDITION |
|--------------------------------------|------|---------------------------------------|------------|

  
**Leak Family Details**

|                               |     |                         |                  |
|-------------------------------|-----|-------------------------|------------------|
| <b>Leak Family Identifier</b> | 001 | <b>Leak Family Name</b> | TFMXR0260NDV-001 |
|-------------------------------|-----|-------------------------|------------------|

  
**Drive Sources and Fuel System Details**

| Drive Source and Fuel# | Drive Source      | Fuel     |
|------------------------|-------------------|----------|
| 1                      | Combustion Engine | Gasoline |

  

|                                           |                                                                                                 |                                                       |                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|
| <b>Hybrid Indicator</b>                   | No                                                                                              | <b>Multiple Fuel Combustion</b>                       | --                  |
| <b>Multiple Fuel Storage</b>              | --                                                                                              | <b>Rechargeable Energy Storage System Indicator</b>   | --                  |
| <b>Fuel Cell Indicator</b>                | --                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                  |
| <b>Rechargeable Energy Storage System</b> | --                                                                                              |                                                       |                     |
| <b>Off-board charge Capable Indicator</b> | --                                                                                              |                                                       |                     |
| <b>Odometer Correction -- Initial</b>     | 0                                                                                               | <b>Odometer Correction Factor</b>                     | 0                   |
| <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>                        | TBD                                                                                             | <b>Rated Horsepower</b>                               | 380                 |
| <b>Displacement (liters)</b>              | 3.5                                                                                             |                                                       |                     |
| <b>Air Aspiration Method</b>              | Turbocharged                                                                                    | <b>Air Aspiration Method, if 'Other'</b>              |                     |
| <b>Number of Air Aspiration Devices</b>   | 2                                                                                               | <b>Air Aspiration Device Configuration</b>            | Parallel            |
| <b>Charge Air Cooler Type</b>             | Air                                                                                             | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 150,000 (mi)        |
| <b>Curb Weight (lbs)</b>                  | 5867                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 6500                |
| <b>GVWR (lbs)</b>                         | 7750                                                                                            | <b>N/V Ratio</b>                                      | 0                   |
| <b>Axle Ratio</b>                         | 3.73                                                                                            |                                                       |                     |
| <b>Transmission Type</b>                  | Semi-Automatic                                                                                  | <b># of Transmission Gears</b>                        | 10                  |
| <b>Transmission Lockup</b>                | Yes                                                                                             | <b>Creep Gear</b>                                     | No                  |

  
**Dynamometer Coefficients:**

| Target Coefficients  |         |             | Set Coefficients |         |             | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |      |
|----------------------|---------|-------------|------------------|---------|-------------|-------------------------------------------------------------------------------|------|
| Coefficient Category | A (lbf) | B (lbf/mph) | C (lbf/mph**2)   | A (lbf) | B (lbf/mph) | C (lbf/mph**2)                                                                |      |
| City/Highway/Evap    | 40.84   | 0.6556      | 0.0279           | 0       | 0           | 0                                                                             | 19.1 |

  
**Emission Control Device Comments** --

Certification Summary Information Report

|                                    |              |                              |              |
|------------------------------------|--------------|------------------------------|--------------|
| Test Group                         | VFMXT03.57AV | Evaporative/Refueling Family | VFMXR0200GDG |
| Manufacturer Test Vehicle Comments | --           |                              |              |

## Certification Summary Information Report

| Test Group                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0200GDG                                        |
|------------------------------------------------|--------------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091441</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>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 05/21/2025                                 | <b>Fuel</b>                           | Gasoline                                            |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 111                                                 |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 3849                                       | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | No                                         | <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                                         | VFMXT03.57AV          | Evaporative/Refueling Family                             | VFMXR0200GDG |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|--------------|
| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |              |
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 558.509491            | --                                                       |              |
| CO BAG 1 (Bag 1 Carbon Monoxide)                   | 0.523                 | --                                                       |              |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 15.607282             | 15.607282                                                |              |
| CH4 BAG 1 (Bag 1 Methane)                          | 0.009                 | --                                                       |              |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)       | 0.0307                | --                                                       |              |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 511.138559            | --                                                       |              |
| CO BAG 2 (Bag 2 Carbon Monoxide)                   | 0.055                 | --                                                       |              |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 17.098173             | 17.098173                                                |              |
| CH4 BAG 2 (Bag 2 Methane)                          | 0.003                 | --                                                       |              |
| NMOG BAG 2 (Bag 2 Non-methane organic gases)       | 0                     | --                                                       |              |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 492.776102            | --                                                       |              |
| CO BAG 3 (Bag 3 Carbon Monoxide)                   | 0.096                 | --                                                       |              |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 17.719893             | 17.719893                                                |              |
| CH4 BAG 3 (Bag 3 Methane)                          | 0.004                 | --                                                       |              |
| NMOG BAG 3 (Bag 3 Non-methane organic gases)       | 0.0009                | --                                                       |              |
| METHANE (CH4 - Methane)                            | 0.004647              | --                                                       |              |
| CO (Carbon Monoxide)                               | 0.163221              | --                                                       |              |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.385908             | --                                                       |              |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.435683             | --                                                       |              |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.323113             | --                                                       |              |
| HCHO (Formaldehyde)                                | 0.0008                | --                                                       |              |
| MFR FE (Manufacturer Fuel Economy)                 | 16.9                  | 16.9                                                     |              |
| NOX (Nitrogen Oxide)                               | 0.012073              | --                                                       |              |
| N2O (Nitrous Oxide)                                | 0.0006                | --                                                       |              |
| HC-NM (Non-methane Hydrocarbon)                    | 0.006012              | --                                                       |              |
| NMOG (Non-methane organic gases)                   | 0.006599              | --                                                       |              |
| PM (Particulate Matter)                            | 0.00009               | --                                                       |              |
| HC-TOTAL (Total Hydrocarbon)                       | 0.010398              | --                                                       |              |
| Test Result Name                                   | Unrounded Test Result | Verify Calculated CREE/OPT-CREE                          |              |
| Carbon-Related Exhaust Emissions                   | 516                   | 516                                                      |              |
| Optional Carbon-Related Exhaust Emissions          | 517                   | 517                                                      |              |

Certification Summary Information Report

|                                                                                                                                                                                                                                                                       |                  |                              |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------|-----------------------|
| Test Group                                                                                                                                                                                                                                                            | VFMXT03.57AV     | Evaporative/Refueling Family | VFMXR0200GDG          |
|                                                                                                                                                                                                                                                                       | Test Result Name | Unrounded Test Result        | Verify Calculated CO2 |
|                                                                                                                                                                                                                                                                       | Carbon dioxide   | 515.9                        | --                    |
| <div>Manufacturer Test Comments<div>Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).</div></div> |                  |                              |                       |

## Certification Summary Information Report

| Test Group           |               | VFMXT03.57AV              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VFMXR0200GDG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 4 Bin 50     | CO            | 0.16           | --                           | --               | --                       | --     | --      | 0.2                 | 1.7      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | CO-COMP       | 0.17           | --                           | --               | --                       | --     | --      | 0.2                 | 4.2      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | CREE          | 516            | --                           | --               | --                       | 0      | --      | 516                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | HCHO          | 0.0008         | --                           | --               | --                       | --     | --      | 0.001               | 0.004    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | METHANE       | 0.0046         | --                           | --               | --                       | --     | --      | 0.005               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | N2O           | 0.0006         | --                           | --               | --                       | --     | --      | 0.001               | 0.010    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG          | 0.0066         | --                           | 1.1              | --                       | --     | --      | 0.007               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG+NOX      | 0.0187         | --                           | --               | --                       | --     | --      | 0.019               | 0.050    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG+NOX-COMP | 0.0166         | --                           | --               | --                       | --     | --      | 0.017               | 0.060    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NOX           | 0.0121         | --                           | --               | --                       | --     | --      | 0.012               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | OPT-CREE      | 517            | --                           | --               | --                       | 0      | --      | 517                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | PM            | 0.0001         | --                           | --               | --                       | --     | --      | 0.000               | 0.003    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | CO            | 0.16           | --                           | --               | --                       | --     | --      | 0.2                 | 1.7      | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | CO-COMP       | 0.17           | --                           | --               | --                       | --     | --      | 0.2                 | 4.2      | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | HCHO          | 0.0008         | --                           | --               | --                       | --     | --      | 0.001               | 0.004    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG          | 0.0066         | --                           | 1.1              | --                       | --     | --      | 0.007               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX      | 0.0187         | --                           | --               | --                       | --     | --      | 0.019               | 0.050    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX-COMP | 0.0166         | --                           | --               | --                       | --     | --      | 0.017               | 0.060    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NOX           | 0.0121         | --                           | --               | --                       | --     | --      | 0.012               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | PM            | 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                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0200GDG                               |
|------------------------------------------------|--------------------------------------------|---------------------------------------|--------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091446</b>                        | <b>Test Procedure</b>                 | <b>11 - Cold CO</b>                        |
| <b>Exhaust Test # for this Evap Test</b>       | --                                         | <b>Test Fuel Type</b>                 | 28 - Cold CO E10 Regular Gasoline (Tier 3) |
| <b>Test Date</b>                               | 06/12/2025                                 | <b>Fuel</b>                           | Gasoline                                   |
| <b>Fuel Batch ID</b>                           | 375-B                                      | <b>Fuel Calibration Number</b>        | 68                                         |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                            |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                            |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         | <b>Odometer Units</b>                 | M                                          |
| <b>Test Start Odometer Reading</b>             | 3919                                       | <b>Diesel Adjustment Factor Usage</b> | --                                         |
| <b>4WD Test Dyno</b>                           | No                                         |                                       |                                            |
| <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 | VFMXT03.57AV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Evaporative/Refueling Family                                                                                                                                           | VFMXR0200GDG                                                                                                                                                                                                          |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------|-------|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|--------|----|----------------------------------|------------|----|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|---|----|----------------------------------|------------|----|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|--------|----|-------------------------|----------|----|----------------------|----------|----|----------------------------------------------------|----------|----|--------------------------------------------|----------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|----------|----|---------------------------------|----------|----|----------------------------------|---------|----|------------------------------|----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|---------------------------------|----------------------------------|-----|----|--|
|            | <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>724.911384</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>1.648</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>12.195877</td><td>12.195877</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.053</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.3477</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>590.919345</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.077</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>15.035654</td><td>15.035654</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.003</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>541.718638</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.099</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>16.393064</td><td>16.393064</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.005</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0027</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.013745</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.409099</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.546167</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.512079</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.746299</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>14.7</td><td>14.7</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.019571</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.066346</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.07291</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.080551</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) | 724.911384     | --    | CO BAG 1 (Bag 1 Carbon Monoxide) | 1.648 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 12.195877 | 12.195877 | CH4 BAG 1 (Bag 1 Methane) | 0.053 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.3477 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 590.919345 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.077 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 15.035654 | 15.035654 | CH4 BAG 2 (Bag 2 Methane) | 0.003 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 541.718638 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.099 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 16.393064 | 16.393064 | CH4 BAG 3 (Bag 3 Methane) | 0.005 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0.0027 | -- | METHANE (CH4 - Methane) | 0.013745 | -- | CO (Carbon Monoxide) | 0.409099 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.546167 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.512079 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.746299 | -- | MFR FE (Manufacturer Fuel Economy) | 14.7 | 14.7 | NOX (Nitrogen Oxide) | 0.019571 | -- | HC-NM (Non-methane Hydrocarbon) | 0.066346 | -- | NMOG (Non-methane organic gases) | 0.07291 | -- | HC-TOTAL (Total Hydrocarbon) | 0.080551 | -- | <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>606</td><td>--</td></tr></table> | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | Carbon-Related Exhaust Emissions | 606 | -- |  |
|            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                  | Verify Calculated FE Equivalent Value (miles per gallon)                                                                                                                                                              |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 724.911384                                                                                                                                                             | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.648                                                                                                                                                                  | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12.195877                                                                                                                                                              | 12.195877                                                                                                                                                                                                             |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.053                                                                                                                                                                  | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.3477                                                                                                                                                                 | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 590.919345                                                                                                                                                             | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.077                                                                                                                                                                  | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15.035654                                                                                                                                                              | 15.035654                                                                                                                                                                                                             |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.003                                                                                                                                                                  | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                                                                                                                                                      | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 541.718638                                                                                                                                                             | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.099                                                                                                                                                                  | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16.393064                                                                                                                                                              | 16.393064                                                                                                                                                                                                             |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.005                                                                                                                                                                  | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0027                                                                                                                                                                 | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.013745                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.409099                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.546167                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.512079                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.746299                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14.7                                                                                                                                                                   | 14.7                                                                                                                                                                                                                  |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.019571                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.066346                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.07291                                                                                                                                                                | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.080551                                                                                                                                                               | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                  | Verify Calculated CREE/OPT-CREE                                                                                                                                                                                       |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 606                                                                                                                                                                    | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>605.2</td><td>--</td></tr></table> | Test Result Name                                                                                                                                                                                                      | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide | 605.2 | --                               |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                  | Verify Calculated CO2                                                                                                                                                                                                 |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 605.2                                                                                                                                                                  | --                                                                                                                                                                                                                    |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |
|            | Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        | Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1). |                                                          |                                  |                |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |                                                                                                                                                                                                  |                  |                       |                                 |                                  |     |    |  |

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## Certification Summary Information Report

| Test Group                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0200GDG                                       |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091442</b>                        | <b>Test Procedure</b>                 | <b>3 - HWFE</b>                                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                         | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 05/21/2025                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 111                                                |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3849                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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) |
|-----------------------------------------------------------|-----------------------|----------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0.000834              | --                                                       |
| <b>CO (Carbon Monoxide)</b>                               | 0.035525              | --                                                       |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -1.61403              | --                                                       |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.653534             | --                                                       |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -2.19048              | --                                                       |
| <b>HCHO (Formaldehyde)</b>                                | 0                     | --                                                       |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 25.9                  | 25.9                                                     |
| <b>NOX (Nitrogen Oxide)</b>                               | 0.00432               | --                                                       |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                       |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                       |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                       |
| <b>HC-TOTAL (Total Hydrocarbon)</b>                       | 0.000731              | --                                                       |

| Test Result Name                        | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-----------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b> | 337                   | 337                             |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 337.2                 | --                    |

## Manufacturer Test Comments

Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).

## Certification Summary Information Report

| Test Group           |               | VFMXT03.57AV              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VFMXR0200GDG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 4 Bin 50     | CREE          | 337            | --                           | --               | --                       | 0      | --      | 337                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG          | 0.0000         | --                           | 1.03             | --                       | --     | --      | 0.000               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG+NOX      | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 0.050    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NOX           | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG          | 0.0000         | --                           | 1.03             | --                       | --     | --      | 0.000               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX      | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 0.050    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NOX           | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 999.999  | 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                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0200GDG                                       |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091444</b>                        | <b>Test Procedure</b>                 | <b>90 - US06</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                         | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 05/21/2025                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 111                                                |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3880                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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                 | VFMXT03.57AV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Evaporative/Refueling Family                                                                                                                                                                     | VFMXR0200GDG                                             |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-----|----------------------------------|-------|----|-------------------------------|----------|----------|---------------------------|-------|----|----------------------------------------------|--------|----|----------------------------------|------------|----|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|--------|----|-------------------------|----------|----|----------------------|----------|----|----------------------------------------------------|---------|----|--------------------------------------------|-----------|----|-------------------------------------------------|---------|----|------------------------------------|------|------|----------------------|----------|----|---------------------------------|----------|----|----------------------------------|----------|----|-------------------------|----------|----|------------------------------|----------|----|--|--|
|                            | <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>876.102035</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.576</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.964375</td><td>9.964375</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.011</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0251</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>446.729065</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.294</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>19.528235</td><td>19.528235</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.005</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0112</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.006177</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.356939</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.10053</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.883166</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.66401</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>16.1</td><td>16.1</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.006475</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.013851</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.014266</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.000117</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.019834</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) | 876.102035                       | --  | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.576 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 9.964375 | 9.964375 | CH4 BAG 1 (Bag 1 Methane) | 0.011 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0251 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 446.729065 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.294 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 19.528235 | 19.528235 | CH4 BAG 2 (Bag 2 Methane) | 0.005 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0.0112 | -- | METHANE (CH4 - Methane) | 0.006177 | -- | CO (Carbon Monoxide) | 0.356939 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.10053 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.883166 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 2.66401 | -- | MFR FE (Manufacturer Fuel Economy) | 16.1 | 16.1 | NOX (Nitrogen Oxide) | 0.006475 | -- | HC-NM (Non-methane Hydrocarbon) | 0.013851 | -- | NMOG (Non-methane organic gases) | 0.014266 | -- | PM (Particulate Matter) | 0.000117 | -- | HC-TOTAL (Total Hydrocarbon) | 0.019834 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 876.102035                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.576                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.964375                                                                                                                                                                                         | 9.964375                                                 |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.011                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0251                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 446.729065                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.294                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19.528235                                                                                                                                                                                        | 19.528235                                                |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.005                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0112                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.006177                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.356939                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.10053                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -0.883166                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.66401                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16.1                                                                                                                                                                                             | 16.1                                                     |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.006475                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.013851                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.014266                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000117                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.019834                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <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>543</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 543 | --                               |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 543                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>542</td><td>--</td></tr></table>                             | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 542 | --                               |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CO2                                    |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
| Carbon dioxide             | 542                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
| Manufacturer Test Comments | Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |

Certification Summary Information Report

| Test Group           |               | VFMXT03.57AV              |               |                |     | Evaporative/Refueling Family |                          |        |         | VFMXR0200GDG        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 4 Bin 50     | PM            | 0.0001         | --  | --                           | --                       | --     | --      | 0.000               | 0.006    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | PM            | 0.0001         | --  | --                           | --                       | --     | --      | 0.000               | 0.006    | Pass      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VFMXT03.57AV                                                                                                                                                                                                          | <b>Evaporative/Refueling Family</b>                      | VFMXR0200GDG                                       |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|------------------|-----------------------|----------------------------------------------------------|----------------------------------|----------|----|----------------------|----------|----|----------------------------------------------------|----------|----|--------------------------------------------|-----------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|----------|----|---------------------------------|----------|----|----------------------------------|----------|----|------------------------------|----------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>TFMX10091445</b>                                                                                                                                                                                                   | <b>Test Procedure</b>                                    | <b>95 - SC03</b>                                   |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                                                                                                                                    | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 06/10/2025                                                                                                                                                                                                            | <b>Fuel</b>                                              | N/A                                                |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 373-B                                                                                                                                                                                                                 | <b>Fuel Calibration Number</b>                           | 110                                                |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                                                   | <b>DF Type</b>                                           | Mfr. Determined                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | APTL                                                                                                                                                                                                                  |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                                                                                                                                                                    |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3905                                                                                                                                                                                                                  | <b>Odometer Units</b>                                    | M                                                  |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                    | <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                       |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr> </thead> <tbody> <tr> <td>METHANE (CH4 - Methane)</td><td>0.005831</td><td>--</td></tr> <tr> <td>CO (Carbon Monoxide)</td><td>0.042906</td><td>--</td></tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.12715</td><td>--</td></tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.778056</td><td>--</td></tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-1.33152</td><td>--</td></tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td><td>13.9</td><td>13.9</td></tr> <tr> <td>NOX (Nitrogen Oxide)</td><td>0.010336</td><td>--</td></tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td><td>0.001133</td><td>--</td></tr> <tr> <td>NMOG (Non-methane organic gases)</td><td>0.001167</td><td>--</td></tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td><td>0.007371</td><td>--</td></tr> </tbody> </table> |                                                                                                                                                                                                                       |                                                          |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | METHANE (CH4 - Methane)          | 0.005831 | -- | CO (Carbon Monoxide) | 0.042906 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | -1.12715 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.778056 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | -1.33152 | -- | MFR FE (Manufacturer Fuel Economy) | 13.9 | 13.9 | NOX (Nitrogen Oxide) | 0.010336 | -- | HC-NM (Non-methane Hydrocarbon) | 0.001133 | -- | NMOG (Non-methane organic gases) | 0.001167 | -- | HC-TOTAL (Total Hydrocarbon) | 0.007371 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                                                                                                                                                                                                 | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.005831                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.042906                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -1.12715                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.778056                                                                                                                                                                                                             | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1.33152                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13.9                                                                                                                                                                                                                  | 13.9                                                     |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.010336                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.001133                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.001167                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.007371                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td><td>639</td><td>--</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |                                                          |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE                          | Carbon-Related Exhaust Emissions | 639      | -- |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                                                                                                                                                                                                 | Verify Calculated CREE/OPT-CREE                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 639                                                                                                                                                                                                                   | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>638.8</td><td>--</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                       |                                                          |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated CO2                                    | Carbon dioxide                   | 638.8    | -- |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                                                                                                                                                                                                 | Verify Calculated CO2                                    |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 638.8                                                                                                                                                                                                                 | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1). |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |

## Certification Summary Information Report

| Test Group                                                                | VFMXT03.57AV                                       | Evaporative/Refueling Family                                              | VFMXR0200GDG |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>111</b>   |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 04/30/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 04/30/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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>                                              | 0.751        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.5                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | --           |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | 38.961                                             | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | 0.834        |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | --                                                 | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>13</b>    |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 02/21/2017   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 02/23/2017                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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>                                              | 0.747        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.9                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17942        |
| <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> | 0.828                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>375-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>68</b>    |
| <b>Test Fuel Type</b>                                                     | 28 - Cold CO E10 Regular Gasoline (Tier 3)         | <b>Fuel Batch Calibration Date</b>                                        | 06/03/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 06/03/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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>                                              | 0.743        |
| <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>                          | 38.786                                             | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | 0.832        |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | --                                                 | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>110</b>   |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 05/31/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 05/31/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |

## Certification Summary Information Report

| Test Group                                                         | VFMXT03.57AV | Evaporative/Refueling Family                                       | VFMXR0200GDG |
|--------------------------------------------------------------------|--------------|--------------------------------------------------------------------|--------------|
| Carbon Weight Fraction NMHC                                        | --           | Carbon Weight Fraction HC                                          | --           |
| Exhaust Carbon Weight Fraction                                     | --           | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --           | Fuel Specific Gravity                                              | 0.75         |
| Fuel Ethanol Volume Percent (%)                                    | 10.2         | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | --           |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | 38.579       | Fuel Carbon Mass Fraction (E10)                                    | 0.833        |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | --           | Weight Fraction CO2                                                | --           |

## Certification Summary Information Report

|                                            |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
|--------------------------------------------|--------------------------------------------|-------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|-----------------------------------------|---------------|------------|
| <b>Test Group</b>                          | VFMXT03.57AV                               | <b>Evaporative/Refueling Family</b> |            |                    |                                        |                                          | VFMXR0200GDG                            |               |            |
| <b>Consolidated List of Standards</b>      |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| <b>Exhaust Standards</b>                   |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| <b>Cert Region</b>                         | Federal                                    | <b>Cert/In-Use Code</b>             |            |                    |                                        |                                          | Cert                                    |               |            |
| <b>Vehicle Class</b>                       | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>Standard Level</b>               |            |                    |                                        |                                          | Federal Tier 4 Bin 50                   |               |            |
| <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                                         | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 1.7        |
| 150,000 miles                              | CO-COMP                                    | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 4.2        |
| 150,000 miles                              | CREE                                       | --                                  | --         | --                 | --                                     | --                                       | --                                      | 0             | 999.999    |
| 150,000 miles                              | HCHO                                       | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 0.004      |
| 150,000 miles                              | METHANE                                    | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 0.030      |
| 150,000 miles                              | N2O                                        | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 0.010      |
| 150,000 miles                              | NMOG                                       | --                                  | --         | 1.1                | --                                     | --                                       | --                                      | --            | 999.999    |
| 150,000 miles                              | NMOG+NOX                                   | --                                  | --         | --                 | --                                     | --                                       | 1.0                                     | --            | 0.050      |
| 150,000 miles                              | NMOG+NOX-COMP                              | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 0.060      |
| 150,000 miles                              | NOX                                        | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 999.999    |
| 150,000 miles                              | OPT-CREE                                   | --                                  | --         | --                 | --                                     | --                                       | --                                      | 0             | 999.999    |
| 150,000 miles                              | PM                                         | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 0.003      |
| <b>Cert Region</b>                         |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| Federal                                    |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| <b>Cert/In-Use Code</b>                    |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| Cert                                       |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| <b>Vehicle Class</b>                       |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| <b>Standard Level</b>                      |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| Federal Tier 4 Bin 50                      |                                            |                                     |            |                    |                                        |                                          |                                         |               |            |
| <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                                         | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 12.5       |
| 120,000 miles                              | HC-NM                                      | --                                  | --         | --                 | --                                     | --                                       | --                                      | --            | 0.4        |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Test Group</b>    |                      | VFMXT03.57AV                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VFMXR0200GDG              |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III ULEV50 |            |
| <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                 | --                                         | --         | 1.03               | --                                     | --                                       | --             | --                        | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | --         | --                 | --                                     | --                                       | 1              | --                        | 0.050      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | --                        | 999.999    |

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Cert Region</b>   |                      | Federal                                    |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 4 Bin 50 |            |
| <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        | CREE                 | --                                         | --         | --                 | --                                     | --                                       | --             | 0                     | 999.999    |
| 150,000 miles        | NMOG                 | --                                         | --         | 1.03               | --                                     | --                                       | --             | --                    | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | --         | --                 | --                                     | --                                       | 1.0            | --                    | 0.050      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | --                    | 999.999    |
| 150,000 miles        | OPT-CREE             | --                                         | --         | --                 | --                                     | --                                       | --             | 0                     | 999.999    |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Test Group</b>    |                      | VFMXT03.57AV                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VFMXR0200GDG                            |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                                    |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III ULEV50               |            |
| <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                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 1.7        |
| 150,000 miles        | CO-COMP              | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 4.2        |
| 150,000 miles        | HCHO                 | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |
| 150,000 miles        | NMOG                 | --                                         | --         | 1.1                | --                                     | --                                       | --             | --                                      | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | --         | --                 | --                                     | --                                       | 1              | --                                      | 0.050      |
| 150,000 miles        | NMOG+NOX-COMP        | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 0.060      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 999.999    |
| 150,000 miles        | PM                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 0.001      |

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Cert Region</b>   |                      | Federal                                    |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 4 Bin 50 |            |
| <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        | PM                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                    | 0.006      |

|                      |                      |                                            |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III ULEV50 |            |
| <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                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                        | 12.5       |

## Certification Summary Information Report

|                      |                                            |                       |            |                                     |                                        |                                          |                           |               |            |
|----------------------|--------------------------------------------|-----------------------|------------|-------------------------------------|----------------------------------------|------------------------------------------|---------------------------|---------------|------------|
| <b>Test Group</b>    | VFMXT03.57AV                               |                       |            | <b>Evaporative/Refueling Family</b> |                                        |                                          | VFMXR0200GDG              |               |            |
| <b>Cert Region</b>   | California + CAA Section 177 states        |                       |            | <b>Cert/In-Use Code</b>             |                                        |                                          | Both                      |               |            |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                       |            | <b>Standard Level</b>               |                                        |                                          | California LEV-III ULEV50 |               |            |
| <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        | PM                                         | --                    | --         | --                                  | --                                     | --                                       | --                        | --            | 0.006      |

## Evaporative/Refueling Standards

|                              |               |                         |                |                |        |                                         |  |
|------------------------------|---------------|-------------------------|----------------|----------------|--------|-----------------------------------------|--|
| Evaporative/Refueling Family |               | VFMXR0200GDG            |                | Cert Region    |        | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |               | Both                    |                | Standard Level |        | California LEV-III 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 | OMHCE                   | --             | 0.500          | 0.0000 |                                         |  |

|                              |               |                           |                |                |        |                                         |  |
|------------------------------|---------------|---------------------------|----------------|----------------|--------|-----------------------------------------|--|
| Evaporative/Refueling Family |               | VFMXR0200GDG              |                | Cert Region    |        | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |               | Both                      |                | Standard Level |        | California LEV-III Zero Evap (Option 2) |  |
| Test Procedure               |               | Federal Fuel Running Loss |                |                |        |                                         |  |
| Fuel                         | Useful Life   | Emission Name             | Rounded Result | Std            | Add DF |                                         |  |
| Gasoline                     | 150,000 miles | OMHCE                     | --             | 0.05           | 0.000  |                                         |  |

|                              |               |                                    |                |                |        |                     |  |
|------------------------------|---------------|------------------------------------|----------------|----------------|--------|---------------------|--|
| Evaporative/Refueling Family |               | VFMXR0200GDG                       |                | 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           | 0.013  |                     |  |

|                              |               |                |                |                |        |                     |  |
|------------------------------|---------------|----------------|----------------|----------------|--------|---------------------|--|
| Evaporative/Refueling Family |               | VFMXR0200GDG   |                | 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 | --             | 0.500          | 0.0000 |                     |  |

## Certification Summary Information Report

|                              |               |                                    |                |                              |        |                                         |  |
|------------------------------|---------------|------------------------------------|----------------|------------------------------|--------|-----------------------------------------|--|
| Test Group                   |               | VFMXT03.57AV                       |                | Evaporative/Refueling Family |        | VFMXR0200GDG                            |  |
| Evaporative/Refueling Family |               | VFMXR0200GDG                       |                | Cert Region                  |        | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |               | Both                               |                | Standard Level               |        | California LEV-III 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 | OMHCE                              | --             | 0.20                         | 0.013  |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0200GDG                       |                | 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                           | --             | 0.020                        | 0      |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0200GDG                       |                | 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                     | --             | 0.500                        | 0.0000 |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0200GDG                       |                | Cert Region                  |        | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |               | Both                               |                | Standard Level               |        | California LEV-III Zero Evap (Option 2) |  |
| Test Procedure               |               | 2-day evap                         |                |                              |        |                                         |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                         |  |
| Gasoline                     | 150,000 miles | OMHCE                              | --             | 0.500                        | 0.0000 |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0200GDG                       |                | 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  |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |

Certification Summary Information Report

|                              |  |                          |  |                              |  |                                         |  |
|------------------------------|--|--------------------------|--|------------------------------|--|-----------------------------------------|--|
| Test Group                   |  | VFMXT03.57AV             |  | Evaporative/Refueling Family |  | VFMXR0200GDG                            |  |
| Evaporative/Refueling Family |  | VFMXR0200GDG             |  | Cert Region                  |  | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |  | Both                     |  | Standard Level               |  | California LEV-III 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                     |  | --                                      |  |
|                              |  |                          |  |                              |  | 0.020                                   |  |
|                              |  |                          |  |                              |  | 0                                       |  |

## Certification Summary Information Report

| Test Group           |                                                                 | VFMXT03.57AV       | Evaporative/Refueling Family                       | VFMXR0200GDG |
|----------------------|-----------------------------------------------------------------|--------------------|----------------------------------------------------|--------------|
| 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                             |                                                            | VFMXT03.57AV | Evaporative/Refueling Family |                                                 | VFMXR0200GDG |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|--------------|
| 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                    |                                                                   | VFMXT03.57AV | Evaporative/Refueling Family                             |                            | VFMXR0200GDG |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|--------------|
| 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                    |                                 | VFMXT03.57AV | Evaporative/Refueling Family |                                  | VFMXR0200GDG |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|--------------|
| 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>               | Ford Motor Company | <b>Manufacturer Code</b>            | FMX                    |
| <b>Test Group</b>                 | VFMXT03.57AV       | <b>Evaporative/Refueling Family</b> | VFMXR0260NDV           |
| <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> | 05/01/2026 09:41:26 AM |
| <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 & ported injection | No                           |

  

|                                                     |                                                                                                                                      |                                                            |              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | No                                                                                                                                   |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                                                                                                                                   | <b>Rechargeable Energy Storage System Indicator</b>        | No           |
| <b>Multiple Fuel Combustion</b>                     | --                                                                                                                                   | <b>Off-board Charge Capable Indicator</b>                  | No           |
| <b>Fuel Cell Indicator</b>                          | No                                                                                                                                   | <b>EPA Vehicle Class</b>                                   | LDT4         |
| <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> | No           |
| <b>Durability Group Name</b>                        | VFMXGPGNNE4D                                                                                                                         | <b>Durability Group Equivalency Factor</b>                 | 1.0          |
| <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>              | 07/20/2026                                                                                                                           | <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>  | Yes                                                                                                                                  |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                                                                                                                                 | <b>OBD Demonstration Vehicle Test Group</b>                | VFMXT03.57AV |
| <b>Test Group OBD Compliance Level</b>              | Partial - with deficiencies                                                                                                          | <b>Number of Test Group OBD Deficiencies</b>               | 2            |
| <b>OBD Deficiencies Comments</b>                    | --                                                                                                                                   |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | E10 City Litmus Value = 13.4 mpg, City Litmus Threshold = 13.2 mpg, E10 HWY Litmus Value = 18.1 mpg, HWY Litmus Threshold = 17.9 mpg |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                                                                                                                                   |                                                            |              |

## Certification Summary Information Report

|                                                                             |                                                                                                                                                            |                                                           |                                             |                         |                     |                     |                       |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|-------------------------|---------------------|---------------------|-----------------------|
| <b>Test Group</b>                                                           | VFMXT03.57AV                                                                                                                                               | <b>Evaporative/Refueling Family</b>                       | VFMXR0260NDV                                |                         |                     |                     |                       |
| <b>Evaporative/Refueling Family Information</b>                             |                                                                                                                                                            |                                                           |                                             |                         |                     |                     |                       |
| <b>Evaporative Summary Information Type</b>                                 | Update for Correction                                                                                                                                      | <b>Submission/Correction Date</b>                         | 01/22/2026 07:45:24 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>                                                   | Other                                                                                                                                                      | <b>Fuel Tank Material Description</b>                     | Plastic                                     |                         |                     |                     |                       |
| <b>Fill Pipe Seal Type</b>                                                  | Liquid seal                                                                                                                                                |                                                           |                                             |                         |                     |                     |                       |
| <b>Air Intake System Vapor Storage Device?</b>                              | Yes                                                                                                                                                        | <b>Air Intake System Vapor Storage Device Description</b> | 1 X 3.7L HA 3-port Rect. + 3 X 0.048L Bleed |                         |                     |                     |                       |
| <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> | 260                                                                                                                                                        | <b>Number of Primary Canisters</b>                        | 1                                           |                         |                     |                     |                       |
| <b>Number of Bleed Canisters</b>                                            | 3                                                                                                                                                          | <b>Bleed Canister Total Working Capacity (grams)</b>      | 1                                           |                         |                     |                     |                       |
| <b>Mfr Evaporative/Refueling Family Comments</b>                            | F-150/Expedition/Navigator Large tank. Vehicle Lines Covered; 5.0L PFDI F-150, 5.2L SC F-150 Raptor R, 3.5L GTPFDI Expedition MAX, 3.5L GTPFDI Navigator L |                                                           |                                             |                         |                     |                     |                       |
| <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>              |                         |                     |                     |                       |
| VFMXR0260NDV-001                                                            | 50 State                                                                                                                                                   | 0.02                                                      | VFMXR0260NDV-001                            |                         |                     |                     |                       |
| <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> |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                                                   | 241 - EXPEDITION 4WD                                      | Federal                                     | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                                                   | 240 - EXPEDITION 2WD                                      | California + CAA Section 177 states         | 2-Wheel Drive, Rear     | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                                                   | 241 - EXPEDITION 4WD                                      | California + CAA Section 177 states         | Part-time 4-Wheel Drive | Semi-Automatic      | 10                  | Yes                   |
| Ford Motor Company                                                          | 1 - Ford                                                                                                                                                   | 240 - EXPEDITION 2WD                                      | Federal                                     | 2-Wheel Drive, Rear     | Semi-Automatic      | 10                  | Yes                   |

## Certification Summary Information Report

|                                                                               |                         |                                                          |                           |
|-------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------|---------------------------|
| <b>Test Group</b>                                                             | VFMXT03.57AV            | <b>Evaporative/Refueling Family</b>                      | VFMXR0260NDV              |
| <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>                                               | V-shaped engine         | <b>Mfr Engine Block Arrangement Description</b>          | --                        |
| <b>Camless Valvetrain Indicator</b>                                           | No                      | <b>Oil Viscosity/Classification</b>                      | SAE 5W-30 / ILSAC GF-7    |
| <b>Number of Cylinders/Rotors</b>                                             | 6                       | <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> |
| 1                                                                             | Three-way catalyst      | Palladium + Rhodium                                      | Ceramic                   |
| 2                                                                             | Three-way catalyst      | Palladium + Rhodium                                      | Ceramic                   |
| 3                                                                             | Other                   | Palladium + Rhodium                                      | Ceramic                   |
| 4                                                                             | Other                   | Palladium + Rhodium                                      | Ceramic                   |
| <b>Mfr After Treatment Device (ATD) Comments</b>                              |                         |                                                          |                           |
| ATD3 and ATD4 are PD+RH TWC + Gasoline Particulate Filter with no PGM loading |                         |                                                          |                           |
| <b>Direct Ozone Reduction (DOR) Device</b>                                    |                         |                                                          |                           |
| Not Equipped                                                                  |                         |                                                          |                           |
| <b>Mfr Emission Control Device Comments</b>                                   |                         |                                                          |                           |
| --                                                                            |                         |                                                          |                           |

## Certification Summary Information Report

|                                                 |                     |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
|-------------------------------------------------|---------------------|---------------------------------------------------------|--------------|--------------|----------------|----------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| <b>Test Group</b>                               | VFMXT03.57AV        | <b>Evaporative/Refueling Family</b>                     | VFMXR0260NDV |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Configuration Number 1</b>            |                     |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Engine Displacement (liters)</b>             | 3.5                 | <b>Engine Rated Horsepower</b>                          | 380          |              |                |                |                              |                                  |                                 |                                     |                              |
| <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>                 | 2            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Aspiration Device Configuration</b>      | Parallel            | <b>Charge Air Cooler Type</b>                           | Air          |              |                |                |                              |                                  |                                 |                                     |                              |
| <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> | TiVCT               |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift?</b>                     | No                  |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Variable Valve Lift System Description</b>   | --                  |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Number of Knock Sensors</b>                  | 2                   | <b>Number of Air/Fuel Sensors</b>                       | 4            |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 1 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 1 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 2 Type</b>                 | Heated air fuel     | <b>Air/Fuel Sensor # 2 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 3 Type</b>                 | Heated oxygen       | <b>Air/Fuel Sensor # 3 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air/Fuel Sensor # 4 Type</b>                 | Heated oxygen       | <b>Air/Fuel Sensor # 4 Description</b>                  | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Air/Fuel Sensor Comments</b>             | --                  |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Exhaust Gas Recirculation</b>                | Yes                 | <b>Cooled Exhaust Gas Recirculation</b>                 | Yes          |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>EGR Type</b>                                 | Electronic/Electric | <b>Exhaust Gas Recirculation Description if 'Other'</b> | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Closed Loop Air Injection System</b>         | No                  |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Air Injection Type</b>                       | Not Applicable      | <b>Air Injection Type if 'Other'</b>                    | --           |              |                |                |                              |                                  |                                 |                                     |                              |
| <b>Mfr Engine Configuration Comments</b>        | Expedition          |                                                         |              |              |                |                |                              |                                  |                                 |                                     |                              |
| <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                                        | TFMX10091441        | TFMX10091444                                            | TFMX10091445 | TFMX10091446 | TFMX10091442   | 13.5           | 14.0                         | 18.4                             | 18.9                            | --                                  |                              |
| <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                                        | TFMX10091441        | TFMX10091444                                            | TFMX10091445 | TFMX10091446 |                |                |                              |                                  |                                 |                                     |                              |

## Certification Summary Information Report

| <b>Test Group</b>                            | VFMXT03.57AV                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | VFMXR0260NDV        |      |   |                   |          |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|------|---|-------------------|----------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                     |      |   |                   |          |  |  |
| <b>Vehicle ID / Configuration</b>            | JFC1-5.0-J-029 / 0                                                                                                                                                      | <b>Manufacturer Vehicle Configuration Number</b>      | 1                   |      |   |                   |          |  |  |
| <b>Original Test Group Name</b>              | JFMXT05.03DN                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | JFMXR0260NDG        |      |   |                   |          |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2018                                                                                                                                                                    |                                                       |                     |      |   |                   |          |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                     |      |   |                   |          |  |  |
| <b>Represented Test Vehicle Make</b>         | Ford                                                                                                                                                                    | <b>Represented Test Vehicle Model</b>                 | F150 Super Cab 4X4  |      |   |                   |          |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                     |      |   |                   |          |  |  |
| <b>Leak Family Identifier</b>                | 001                                                                                                                                                                     | <b>Leak Family Name</b>                               | JFMXR0260NDG-001    |      |   |                   |          |  |  |
| <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>                     | 1.03                |      |   |                   |          |  |  |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                         |                                                       |                     |      |   |                   |          |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                     |      |   |                   |          |  |  |
| <b>Engine Code</b>                           | JTFCAVNC05                                                                                                                                                              | <b>Rated Horsepower</b>                               | 395                 |      |   |                   |          |  |  |
| <b>Displacement (liters)</b>                 | 5                                                                                                                                                                       |                                                       |                     |      |   |                   |          |  |  |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              |                     |      |   |                   |          |  |  |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                  |      |   |                   |          |  |  |
| <b>Charge Air Cooler Type</b>                | N/A                                                                                                                                                                     | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |      |   |                   |          |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)          |      |   |                   |          |  |  |
| <b>Curb Weight (lbs)</b>                     | 5217                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 5500                |      |   |                   |          |  |  |
| <b>GVWR (lbs)</b>                            | 7850                                                                                                                                                                    | <b>N/V Ratio</b>                                      | 25.7                |      |   |                   |          |  |  |
| <b>Axle Ratio</b>                            | 3.73                                                                                                                                                                    |                                                       |                     |      |   |                   |          |  |  |
| <b>Transmission Type</b>                     | Semi-Automatic                                                                                                                                                          | <b># of Transmission Gears</b>                        | 10                  |      |   |                   |          |  |  |
| <b>Transmission Lockup</b>                   | Yes                                                                                                                                                                     | <b>Creep Gear</b>                                     | No                  |      |   |                   |          |  |  |

Certification Summary Information Report

|                                    |         |                                            |                |                  |                              |                |                                                                                  |  |
|------------------------------------|---------|--------------------------------------------|----------------|------------------|------------------------------|----------------|----------------------------------------------------------------------------------|--|
| Test Group                         |         | VFMXT03.57AV                               |                |                  | Evaporative/Refueling Family |                | VFMXR0260NDV                                                                     |  |
| 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                  | 44.39   | 0.1933                                     | 0.03931        | 26.94            | 0.1117                       | 0.0368         | 20.3                                                                             |  |
| Cold CO                            | 44.39   | 0.1933                                     | 0.03931        | 26.94            | 0.1117                       | 0.0368         | N/A                                                                              |  |
| US06                               | 44.39   | 0.1933                                     | 0.03931        | 26.94            | 0.1117                       | 0.0368         | N/A                                                                              |  |
| Emission Control Device Comments   |         | Test Request t18-0006-01; T3B125 / ULEV125 |                |                  |                              |                |                                                                                  |  |
| Manufacturer Test Vehicle Comments |         | 2018MY F150 Super Cab 4x4                  |                |                  |                              |                |                                                                                  |  |

## Certification Summary Information Report

| Test Group                                     | VFMXT03.57AV                        | Evaporative/Refueling Family          | VFMXR0260NDV                                        |
|------------------------------------------------|-------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test #</b>                                  | <b>JFMX10048057</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>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 03/04/2017                          | <b>Fuel</b>                           | N/A                                                 |
| <b>Fuel Batch ID</b>                           | 373-B                               | <b>Fuel Calibration Number</b>        | 13                                                  |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | APTL                                |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 4867                                | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | No                                  | <b>Diesel Adjustment Factor Usage</b> | --                                                  |
| <b>State of Charge Delta</b>                   | --                                  |                                       |                                                     |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | No                                                  |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 593.7469258           | --                                                       |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 14.4883336            | 14.4883336                                               |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 588.179163            | --                                                       |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 14.748881             | 14.748881                                                |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 515.8187807           | --                                                       |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 16.7965514            | 16.7965514                                               |
| METHANE (CH4 - Methane)                            | 0.008781              | --                                                       |
| CO (Carbon Monoxide)                               | 0.7106258             | --                                                       |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.3945                | --                                                       |
| DT-EER (Drive Trace Energy Economy Rating)         | 1.18092               | --                                                       |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 1.84808               | --                                                       |
| HCHO (Formaldehyde)                                | 0.0011057             | --                                                       |
| MFR FE (Manufacturer Fuel Economy)                 | 15.2136817            | 15.2136817                                               |
| NOX (Nitrogen Oxide)                               | 0.024514              | --                                                       |
| N2O (Nitrous Oxide)                                | 0.0017543             | --                                                       |
| HC-NM (Non-methane Hydrocarbon)                    | 0.0261758             | --                                                       |
| NMOG (Non-methane organic gases)                   | 0.0288016             | --                                                       |
| PM (Particulate Matter)                            | 0.000822              | --                                                       |
| HC-TOTAL (Total Hydrocarbon)                       | 0.0339089             | --                                                       |

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|            |              |                              |              |
|------------|--------------|------------------------------|--------------|
| Test Group | VFMXT03.57AV | Evaporative/Refueling Family | VFMXR0260NDV |
|------------|--------------|------------------------------|--------------|

Emission Data Vehicle Information

|                                  |                    |                                           |              |
|----------------------------------|--------------------|-------------------------------------------|--------------|
| Vehicle ID / Configuration       | JFC1-5.0-J-029 / 1 | Manufacturer Vehicle Configuration Number | 1            |
| Original Test Group Name         | JFMXT05.03DP       | Original Evaporative/Refueling Family     | JFMXR0260NDV |
| Original Test Vehicle Model Year | 2018               |                                           |              |

Vehicle Model

|                               |      |                                |                    |
|-------------------------------|------|--------------------------------|--------------------|
| Represented Test Vehicle Make | Ford | Represented Test Vehicle Model | F150 Super Cab 4X4 |
|-------------------------------|------|--------------------------------|--------------------|

Leak Family Details

|                        |     |                  |                  |
|------------------------|-----|------------------|------------------|
| Leak Family Identifier | 001 | Leak Family Name | JFMXR0260NDV-001 |
|------------------------|-----|------------------|------------------|

Drive Sources and Fuel System Details

|                        |                   |          |
|------------------------|-------------------|----------|
| Drive Source and Fuel# | Drive Source      | Fuel     |
| 1                      | Combustion Engine | Gasoline |

|                                    |                                                                                                 |                                                |                     |
|------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------|
| Hybrid Indicator                   | No                                                                                              | Multiple Fuel Combustion                       | --                  |
| Multiple Fuel Storage              | --                                                                                              | Rechargeable Energy Storage System Indicator   | --                  |
| Fuel Cell Indicator                | --                                                                                              | Rechargeable Energy Storage System, if 'Other' | --                  |
| Rechargeable Energy Storage System | --                                                                                              |                                                |                     |
| Off-board charge Capable Indicator | --                                                                                              |                                                |                     |
| Odometer Correction -- Initial     | 0                                                                                               | Odometer Correction Factor                     | 1.03                |
| Odometer Correction Sign           | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles |                                                |                     |
| Odometer Correction Units          | Miles                                                                                           |                                                |                     |
| Engine Code                        | JTFCAVNC06                                                                                      | Rated Horsepower                               | 395                 |
| Displacement (liters)              | 5                                                                                               | Air Aspiration Method, if 'Other'              |                     |
| Air Aspiration Method              | Naturally Aspirated                                                                             | Air Aspiration Device Configuration            | --                  |
| Number of Air Aspiration Devices   | --                                                                                              | Drive Mode While Testing                       | 2-Wheel Drive, Rear |
| Charge Air Cooler Type             | N/A                                                                                             | Aged Emission Components                       | 4,000 (mi)          |
| Shift Indicator Light Usage        | Not equipped                                                                                    | Equivalent Test Weight (pounds)                | 5500                |
| Curb Weight (lbs)                  | 5217                                                                                            | N/V Ratio                                      | 25.7                |
| GVWR (lbs)                         | 7850                                                                                            |                                                |                     |
| Axle Ratio                         | 3.73                                                                                            |                                                |                     |
| Transmission Type                  | Semi-Automatic                                                                                  | # of Transmission Gears                        | 10                  |
| Transmission Lockup                | Yes                                                                                             | Creeper Gear                                   | No                  |

Dynamometer Coefficients:

| Target Coefficients  |         |             | Set Coefficients |         |             | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |      |
|----------------------|---------|-------------|------------------|---------|-------------|-------------------------------------------------------------------------------|------|
| Coefficient Category | A (lbf) | B (lbf/mph) | C (lbf/mph**2)   | A (lbf) | B (lbf/mph) | C (lbf/mph**2)                                                                |      |
| City/Highway/Evap    | 44.39   | 0.1933      | 0.03931          | 26.94   | 0.1117      | 0.0368                                                                        | 20.3 |

Emission Control Device Comments

Test Request t18-0047-01; T3/L3 Evap Gasoline

## Certification Summary Information Report

|                                                |                                                                   |                                       |                                                    |
|------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test Group</b>                              | VFMXT03.57AV                                                      | <b>Evaporative/Refueling Family</b>   | VFMXR0260NDV                                       |
| <b>Manufacturer Test Vehicle Comments</b>      | 2018MY F150 Super Cab 4x4                                         |                                       |                                                    |
| <b>Test #</b>                                  | <b>JFMX10049672</b>                                               | <b>Test Procedure</b>                 | <b>23 - 2-day evap</b>                             |
| <b>Exhaust Test # for this Evap Test</b>       | JFMX10048057                                                      | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 05/09/2017                                                        | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | --                                                                | <b>Fuel Calibration Number</b>        | --                                                 |
| <b>Vehicle Class</b>                           | N/A                                                               | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                                              |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5337                                                              | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                                                |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)                               | <b>Road Speed Fan Usage</b>           | No                                                 |

## Test Results

| Test Result Name                                                 | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|------------------------------------------------------------------|-----------------------|----------------------------------------------------------|
| <b>OMHCE (Organic material Hydrocarbon Equivalent)</b>           | 0.1981                | --                                                       |
| <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b> | 0.1981                | --                                                       |

## Manufacturer Test Comments

Linking test performed on previously waived calibration R05 for test group JFMXT05.03DN

| 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 | 0.1981         | 0.0000 | 0.198               | 0.500    | Pass      |
| CA                   | 150,000 miles | California LEV-III Zero Evap (Option 2) | OMHCE          | 0.1981         | 0.0000 | 0.198               | 0.500    | Pass      |

## Certification Summary Information Report

| Test Group                                                                                                                                                                                                                                                                                                                                                                                                    | VFMXT03.57AV                                                      | Evaporative/Refueling Family                             | VFMXR0260NDV                                       |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|-------------------------------------------------|------------------|----|-----------------------------------------------------------|--------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                 | <b>JFMX10049673</b>                                               | <b>Test Procedure</b>                                    | <b>34 - Federal fuel 3-day evap</b>                |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                      | JFMX10048057                                                      | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                              | 04/28/2017                                                        | <b>Fuel</b>                                              | Gasoline                                           |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                          | --                                                                | <b>Fuel Calibration Number</b>                           | --                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                               | <b>DF Type</b>                                           | Mfr. Determined                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                     | APTL                                                              |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                            | 5273                                                              | <b>Odometer Units</b>                                    | M                                                  |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                          | No                                                                | <b>Diesel Adjustment Factor Usage</b>                    | --                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                  | --                                                                |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                   | Used Part 86 (+/- 2 mph, +/- 1 sec)                               | <b>Road Speed Fan Usage</b>                              | No                                                 |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.2212</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.2212</td> <td>--</td> </tr> </tbody> </table> |                                                                   |                                                          |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | OMHCE (Organic material Hydrocarbon Equivalent) | 0.2212           | -- | HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.2212 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                              | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| OMHCE (Organic material Hydrocarbon Equivalent)                                                                                                                                                                                                                                                                                                                                                               | 0.2212                                                            | --                                                       |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)                                                                                                                                                                                                                                                                                                                                                     | 0.2212                                                            | --                                                       |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                             |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| Linking test performed on previously waived calibration (R05) level for JFMXT05.03DN.                                                                                                                                                                                                                                                                                                                         |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                                 |                  |    |                                                           |        |    |
| <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                                     | 0.2212                | 0.0000                | 0.221                                                    | 0.500                                           | Pass             |    |                                                           |        |    |
| CA                                                                                                                                                                                                                                                                                                                                                                                                            | 150,000 miles                                                     | California LEV-III Zero Evap (Option 2)                  | OMHCE                                              | 0.2212                | 0.0000                | 0.221                                                    | 0.500                                           | Pass             |    |                                                           |        |    |

## Certification Summary Information Report

| Test Group                                     | VFMXT03.57AV                                                      | Evaporative/Refueling Family          | VFMXR0260NDV                                       |
|------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>JFMX10049674</b>                                               | <b>Test Procedure</b>                 | <b>32 - Federal Fuel Running Loss</b>              |
| <b>Exhaust Test # for this Evap Test</b>       | JFMX10048057                                                      | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 04/28/2017                                                        | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | --                                                                | <b>Fuel Calibration Number</b>        | --                                                 |
| <b>Vehicle Class</b>                           | N/A                                                               | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                                              |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 5284                                                              | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                                                | <b>Diesel Adjustment Factor Usage</b> | --                                                 |
| <b>State of Charge Delta</b>                   | --                                                                |                                       |                                                    |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)                               | <b>Road Speed Fan Usage</b>           | No                                                 |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|-----------------------------------------------------------|-----------------------|----------------------------------------------------------|
| OMHCE (Organic material Hydrocarbon Equivalent)           | 0.001                 | --                                                       |
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.001                 | --                                                       |

## Manufacturer Test Comments

Linking test performed on previously waived

| 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 | 0.001          | 0.000  | 0.00                | 0.05     | Pass      |
| CA                   | 150,000 miles | California LEV-III Zero Evap (Option 2) | OMHCE          | 0.001          | 0.000  | 0.00                | 0.05     | Pass      |

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## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                         | VFMXT03.57AV                                                      | <b>Evaporative/Refueling Family</b>                      | VFMXR0260NDV                                            |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|--------------------------------------------------------|------------------|----|------------------------------------------------------------------|-------|----|
| <b>Manufacturer Test Vehicle Comments</b>                                                                                                                                                                                                                                                                                                                                                                                 | 2018MY F150 Super Cab 4x4                                         |                                                          |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                             | <b>JFMX10049676</b>                                               | <b>Test Procedure</b>                                    | <b>24 - Federal fuel refueling test (ORVR)</b>          |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                  | JFMX10048057                                                      | <b>Test Fuel Type</b>                                    | 59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only) |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                          | 06/20/2017                                                        | <b>Fuel</b>                                              | Gasoline                                                |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                      | --                                                                | <b>Fuel Calibration Number</b>                           | --                                                      |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                      | N/A                                                               | <b>DF Type</b>                                           | Mfr. Determined                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                 | APTL                                                              |                                                          |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                            | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                                          |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                        | 5422                                                              | <b>Odometer Units</b>                                    | M                                                       |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                      | No                                                                | <b>Diesel Adjustment Factor Usage</b>                    | --                                                      |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                              | --                                                                |                                                          |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                               | Used Part 86 (+/- 2 mph, +/- 1 sec)                               | <b>Road Speed Fan Usage</b>                              | No                                                      |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td><b>OMHCE (Organic material Hydrocarbon Equivalent)</b></td> <td>0.008</td> <td>--</td> </tr> <tr> <td><b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b></td> <td>0.008</td> <td>--</td> </tr> </tbody> </table> |                                                                   |                                                          |                                                         | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | <b>OMHCE (Organic material Hydrocarbon Equivalent)</b> | 0.008            | -- | <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b> | 0.008 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>OMHCE (Organic material Hydrocarbon Equivalent)</b>                                                                                                                                                                                                                                                                                                                                                                    | 0.008                                                             | --                                                       |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>                                                                                                                                                                                                                                                                                                                                                          | 0.008                                                             | --                                                       |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <b>Manufacturer Test Comments</b> ORVR test                                                                                                                                                                                                                                                                                                                                                                               |                                                                   |                                                          |                                                         |                       |                       |                                                          |                                                        |                  |    |                                                                  |       |    |
| <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                                          | 0.008                 | 0.003                 | 0.01                                                     | 0.20                                                   | Pass             |    |                                                                  |       |    |
| CA                                                                                                                                                                                                                                                                                                                                                                                                                        | 150,000 miles                                                     | California LEV-III Zero Evap (Option 2)                  | OMHCE                                                   | 0.008                 | 0.003                 | 0.01                                                     | 0.20                                                   | Pass             |    |                                                                  |       |    |

## Certification Summary Information Report

| Test Group                                                                                                                                                                                                                                                                              | VFMXT03.57AV                                                      | Evaporative/Refueling Family                             | VFMXR0260NDV                                       |                       |                       |                                                          |                                     |                  |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------------|-------------------------------------|------------------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                           | <b>JFMX10049769</b>                                               | <b>Test Procedure</b>                                    | <b>65 - Evap Canister Bleed Test</b>               |                       |                       |                                                          |                                     |                  |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                | --                                                                | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                       |                       |                                                          |                                     |                  |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                        | 04/06/2017                                                        | <b>Fuel</b>                                              | Gasoline                                           |                       |                       |                                                          |                                     |                  |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                    | --                                                                | <b>Fuel Calibration Number</b>                           | --                                                 |                       |                       |                                                          |                                     |                  |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                    | N/A                                                               | <b>DF Type</b>                                           | Mfr. Determined                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                               | APTL                                                              |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                          | Actual Total Hydrocarbon Equivalent Measurement (with speciation) |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                      | 5111                                                              | <b>Odometer Units</b>                                    | M                                                  |                       |                       |                                                          |                                     |                  |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                    | No                                                                | <b>Diesel Adjustment Factor Usage</b>                    | --                                                 |                       |                       |                                                          |                                     |                  |    |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                            | --                                                                |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                             | Used Part 86 (+/- 2 mph, +/- 1 sec)                               | <b>Road Speed Fan Usage</b>                              | No                                                 |                       |                       |                                                          |                                     |                  |    |
| <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 (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td><b>HC-TOTAL (Total Hydrocarbon)</b></td> <td>0.0107</td> <td>--</td> </tr> </tbody> </table> |                                                                   |                                                          |                                                    | Test Result Name      | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | <b>HC-TOTAL (Total Hydrocarbon)</b> | 0.0107           | -- |
| Test Result Name                                                                                                                                                                                                                                                                        | Unrounded Test Result                                             | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>HC-TOTAL (Total Hydrocarbon)</b>                                                                                                                                                                                                                                                     | 0.0107                                                            | --                                                       |                                                    |                       |                       |                                                          |                                     |                  |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                       |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| BETP Testing is THC Only (not OMHCE/THCE)                                                                                                                                                                                                                                               |                                                                   |                                                          |                                                    |                       |                       |                                                          |                                     |                  |    |
| <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                                           | 0.0107                | 0                     | 0.011                                                    | 0.020                               | Pass             |    |
| CA                                                                                                                                                                                                                                                                                      | 150,000 miles                                                     | California LEV-III Zero Evap (Option 2)                  | HC-TOTAL                                           | 0.0107                | 0                     | 0.011                                                    | 0.020                               | Pass             |    |

## Certification Summary Information Report

|                   |              |                                     |              |
|-------------------|--------------|-------------------------------------|--------------|
| <b>Test Group</b> | VFMXT03.57AV | <b>Evaporative/Refueling Family</b> | VFMXR0260NDV |
|-------------------|--------------|-------------------------------------|--------------|

  
**Emission Data Vehicle Information**

|                                         |                    |                                                  |              |
|-----------------------------------------|--------------------|--------------------------------------------------|--------------|
| <b>Vehicle ID / Configuration</b>       | TBD1-3.5-J-230 / 0 | <b>Manufacturer Vehicle Configuration Number</b> | 0            |
| <b>Original Test Group Name</b>         | TFMXT03.57AV       | <b>Original Evaporative/Refueling Family</b>     | TFMXR0260NDV |
| <b>Original Test Vehicle Model Year</b> | 2026               |                                                  |              |

**Vehicle Model**

|                                      |      |                                       |            |
|--------------------------------------|------|---------------------------------------|------------|
| <b>Represented Test Vehicle Make</b> | FORD | <b>Represented Test Vehicle Model</b> | EXPEDITION |
|--------------------------------------|------|---------------------------------------|------------|

  
**Leak Family Details**

|                               |     |                         |                  |
|-------------------------------|-----|-------------------------|------------------|
| <b>Leak Family Identifier</b> | 001 | <b>Leak Family Name</b> | TFMXR0260NDV-001 |
|-------------------------------|-----|-------------------------|------------------|

  
**Drive Sources and Fuel System Details**

| Drive Source and Fuel# | Drive Source      | Fuel     |
|------------------------|-------------------|----------|
| 1                      | Combustion Engine | Gasoline |

  

|                                           |                                                                                                 |                                                       |                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|
| <b>Hybrid Indicator</b>                   | No                                                                                              | <b>Multiple Fuel Combustion</b>                       | --                  |
| <b>Multiple Fuel Storage</b>              | --                                                                                              | <b>Rechargeable Energy Storage System Indicator</b>   | --                  |
| <b>Fuel Cell Indicator</b>                | --                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                  |
| <b>Rechargeable Energy Storage System</b> | --                                                                                              |                                                       |                     |
| <b>Off-board charge Capable Indicator</b> | --                                                                                              |                                                       |                     |
| <b>Odometer Correction -- Initial</b>     | 0                                                                                               | <b>Odometer Correction Factor</b>                     | 0                   |
| <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>                        | TBD                                                                                             | <b>Rated Horsepower</b>                               | 380                 |
| <b>Displacement (liters)</b>              | 3.5                                                                                             |                                                       |                     |
| <b>Air Aspiration Method</b>              | Turbocharged                                                                                    | <b>Air Aspiration Method, if 'Other'</b>              |                     |
| <b>Number of Air Aspiration Devices</b>   | 2                                                                                               | <b>Air Aspiration Device Configuration</b>            | Parallel            |
| <b>Charge Air Cooler Type</b>             | Air                                                                                             | <b>Drive Mode While Testing</b>                       | 2-Wheel Drive, Rear |
| <b>Shift Indicator Light Usage</b>        | Not equipped                                                                                    | <b>Aged Emission Components</b>                       | 150,000 (mi)        |
| <b>Curb Weight (lbs)</b>                  | 5867                                                                                            | <b>Equivalent Test Weight (pounds)</b>                | 6500                |
| <b>GVWR (lbs)</b>                         | 7750                                                                                            | <b>N/V Ratio</b>                                      | 0                   |
| <b>Axle Ratio</b>                         | 3.73                                                                                            |                                                       |                     |
| <b>Transmission Type</b>                  | Semi-Automatic                                                                                  | <b># of Transmission Gears</b>                        | 10                  |
| <b>Transmission Lockup</b>                | Yes                                                                                             | <b>Creep Gear</b>                                     | No                  |

  
**Dynamometer Coefficients:**

| Target Coefficients  |         |             | Set Coefficients |         |             | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |      |
|----------------------|---------|-------------|------------------|---------|-------------|-------------------------------------------------------------------------------|------|
| Coefficient Category | A (lbf) | B (lbf/mph) | C (lbf/mph**2)   | A (lbf) | B (lbf/mph) | C (lbf/mph**2)                                                                |      |
| City/Highway/Evap    | 40.84   | 0.6556      | 0.0279           | 0       | 0           | 0                                                                             | 19.1 |

  
**Emission Control Device Comments** --

Certification Summary Information Report

|                                    |              |                              |              |
|------------------------------------|--------------|------------------------------|--------------|
| Test Group                         | VFMXT03.57AV | Evaporative/Refueling Family | VFMXR0260NDV |
| Manufacturer Test Vehicle Comments | --           |                              |              |

## Certification Summary Information Report

| Test Group                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0260NDV                                        |
|------------------------------------------------|--------------------------------------------|---------------------------------------|-----------------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091441</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>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)  |
| <b>Test Date</b>                               | 05/21/2025                                 | <b>Fuel</b>                           | Gasoline                                            |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 111                                                 |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                     |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                                     |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         |                                       |                                                     |
| <b>Test Start Odometer Reading</b>             | 3849                                       | <b>Odometer Units</b>                 | M                                                   |
| <b>4WD Test Dyno</b>                           | No                                         | <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                                         | VFMXT03.57AV          | Evaporative/Refueling Family                             | VFMXR0260NDV |
|----------------------------------------------------|-----------------------|----------------------------------------------------------|--------------|
| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |              |
| CO2 BAG 1 (Bag 1 Carbon Dioxide)                   | 558.509491            | --                                                       |              |
| CO BAG 1 (Bag 1 Carbon Monoxide)                   | 0.523                 | --                                                       |              |
| FE BAG 1 (Bag 1 Fuel Economy)                      | 15.607282             | 15.607282                                                |              |
| CH4 BAG 1 (Bag 1 Methane)                          | 0.009                 | --                                                       |              |
| NMOG BAG 1 (Bag 1 Non-methane organic gases)       | 0.0307                | --                                                       |              |
| CO2 BAG 2 (Bag 2 Carbon Dioxide)                   | 511.138559            | --                                                       |              |
| CO BAG 2 (Bag 2 Carbon Monoxide)                   | 0.055                 | --                                                       |              |
| FE BAG 2 (Bag 2 Fuel Economy)                      | 17.098173             | 17.098173                                                |              |
| CH4 BAG 2 (Bag 2 Methane)                          | 0.003                 | --                                                       |              |
| NMOG BAG 2 (Bag 2 Non-methane organic gases)       | 0                     | --                                                       |              |
| CO2 BAG 3 (Bag 3 Carbon Dioxide)                   | 492.776102            | --                                                       |              |
| CO BAG 3 (Bag 3 Carbon Monoxide)                   | 0.096                 | --                                                       |              |
| FE BAG 3 (Bag 3 Fuel Economy)                      | 17.719893             | 17.719893                                                |              |
| CH4 BAG 3 (Bag 3 Methane)                          | 0.004                 | --                                                       |              |
| NMOG BAG 3 (Bag 3 Non-methane organic gases)       | 0.0009                | --                                                       |              |
| METHANE (CH4 - Methane)                            | 0.004647              | --                                                       |              |
| CO (Carbon Monoxide)                               | 0.163221              | --                                                       |              |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.385908             | --                                                       |              |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.435683             | --                                                       |              |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -0.323113             | --                                                       |              |
| HCHO (Formaldehyde)                                | 0.0008                | --                                                       |              |
| MFR FE (Manufacturer Fuel Economy)                 | 16.9                  | 16.9                                                     |              |
| NOX (Nitrogen Oxide)                               | 0.012073              | --                                                       |              |
| N2O (Nitrous Oxide)                                | 0.0006                | --                                                       |              |
| HC-NM (Non-methane Hydrocarbon)                    | 0.006012              | --                                                       |              |
| NMOG (Non-methane organic gases)                   | 0.006599              | --                                                       |              |
| PM (Particulate Matter)                            | 0.00009               | --                                                       |              |
| HC-TOTAL (Total Hydrocarbon)                       | 0.010398              | --                                                       |              |
| Test Result Name                                   | Unrounded Test Result | Verify Calculated CREE/OPT-CREE                          |              |
| Carbon-Related Exhaust Emissions                   | 516                   | 516                                                      |              |
| Optional Carbon-Related Exhaust Emissions          | 517                   | 517                                                      |              |

Certification Summary Information Report

|                                                                                                                                                                                                                                                                       |                  |                              |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------|-----------------------|
| Test Group                                                                                                                                                                                                                                                            | VFMXT03.57AV     | Evaporative/Refueling Family | VFMXR0260NDV          |
|                                                                                                                                                                                                                                                                       | Test Result Name | Unrounded Test Result        | Verify Calculated CO2 |
|                                                                                                                                                                                                                                                                       | Carbon dioxide   | 515.9                        | --                    |
| <div>Manufacturer Test Comments<div>Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).</div></div> |                  |                              |                       |

## Certification Summary Information Report

| Test Group           |               | VFMXT03.57AV              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VFMXR0260NDV        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 4 Bin 50     | CO            | 0.16           | --                           | --               | --                       | --     | --      | 0.2                 | 1.7      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | CO-COMP       | 0.17           | --                           | --               | --                       | --     | --      | 0.2                 | 4.2      | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | CREE          | 516            | --                           | --               | --                       | 0      | --      | 516                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | HCHO          | 0.0008         | --                           | --               | --                       | --     | --      | 0.001               | 0.004    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | METHANE       | 0.0046         | --                           | --               | --                       | --     | --      | 0.005               | 0.030    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | N2O           | 0.0006         | --                           | --               | --                       | --     | --      | 0.001               | 0.010    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG          | 0.0066         | --                           | 1.1              | --                       | --     | --      | 0.007               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG+NOX      | 0.0187         | --                           | --               | --                       | --     | --      | 0.019               | 0.050    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG+NOX-COMP | 0.0166         | --                           | --               | --                       | --     | --      | 0.017               | 0.060    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NOX           | 0.0121         | --                           | --               | --                       | --     | --      | 0.012               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | OPT-CREE      | 517            | --                           | --               | --                       | 0      | --      | 517                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | PM            | 0.0001         | --                           | --               | --                       | --     | --      | 0.000               | 0.003    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | CO            | 0.16           | --                           | --               | --                       | --     | --      | 0.2                 | 1.7      | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | CO-COMP       | 0.17           | --                           | --               | --                       | --     | --      | 0.2                 | 4.2      | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | HCHO          | 0.0008         | --                           | --               | --                       | --     | --      | 0.001               | 0.004    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG          | 0.0066         | --                           | 1.1              | --                       | --     | --      | 0.007               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX      | 0.0187         | --                           | --               | --                       | --     | --      | 0.019               | 0.050    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX-COMP | 0.0166         | --                           | --               | --                       | --     | --      | 0.017               | 0.060    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NOX           | 0.0121         | --                           | --               | --                       | --     | --      | 0.012               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | PM            | 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                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0260NDV                               |
|------------------------------------------------|--------------------------------------------|---------------------------------------|--------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091446</b>                        | <b>Test Procedure</b>                 | <b>11 - Cold CO</b>                        |
| <b>Exhaust Test # for this Evap Test</b>       | --                                         | <b>Test Fuel Type</b>                 | 28 - Cold CO E10 Regular Gasoline (Tier 3) |
| <b>Test Date</b>                               | 06/12/2025                                 | <b>Fuel</b>                           | Gasoline                                   |
| <b>Fuel Batch ID</b>                           | 375-B                                      | <b>Fuel Calibration Number</b>        | 68                                         |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                            |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                            |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         |                                       |                                            |
| <b>Test Start Odometer Reading</b>             | 3919                                       | <b>Odometer Units</b>                 | M                                          |
| <b>4WD Test Dyno</b>                           | No                                         | <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                 | VFMXT03.57AV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Evaporative/Refueling Family                                                                                                                                                                     | VFMXR0260NDV                                             |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-------|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|--------|----|----------------------------------|------------|----|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|---|----|----------------------------------|------------|----|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|--------|----|-------------------------|----------|----|----------------------|----------|----|----------------------------------------------------|----------|----|--------------------------------------------|----------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|----------|----|---------------------------------|----------|----|----------------------------------|---------|----|------------------------------|----------|----|--|
|                            | <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>724.911384</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>1.648</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>12.195877</td><td>12.195877</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.053</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.3477</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>590.919345</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.077</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>15.035654</td><td>15.035654</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.003</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>541.718638</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.099</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>16.393064</td><td>16.393064</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.005</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0027</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.013745</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.409099</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.546167</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.512079</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.746299</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>14.7</td><td>14.7</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.019571</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.066346</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.07291</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.080551</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) | 724.911384                       | --    | CO BAG 1 (Bag 1 Carbon Monoxide) | 1.648 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 12.195877 | 12.195877 | CH4 BAG 1 (Bag 1 Methane) | 0.053 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.3477 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 590.919345 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.077 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 15.035654 | 15.035654 | CH4 BAG 2 (Bag 2 Methane) | 0.003 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0 | -- | CO2 BAG 3 (Bag 3 Carbon Dioxide) | 541.718638 | -- | CO BAG 3 (Bag 3 Carbon Monoxide) | 0.099 | -- | FE BAG 3 (Bag 3 Fuel Economy) | 16.393064 | 16.393064 | CH4 BAG 3 (Bag 3 Methane) | 0.005 | -- | NMOG BAG 3 (Bag 3 Non-methane organic gases) | 0.0027 | -- | METHANE (CH4 - Methane) | 0.013745 | -- | CO (Carbon Monoxide) | 0.409099 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.546167 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.512079 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.746299 | -- | MFR FE (Manufacturer Fuel Economy) | 14.7 | 14.7 | NOX (Nitrogen Oxide) | 0.019571 | -- | HC-NM (Non-methane Hydrocarbon) | 0.066346 | -- | NMOG (Non-methane organic gases) | 0.07291 | -- | HC-TOTAL (Total Hydrocarbon) | 0.080551 | -- |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 724.911384                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.648                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12.195877                                                                                                                                                                                        | 12.195877                                                |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.053                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.3477                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 590.919345                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.077                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15.035654                                                                                                                                                                                        | 15.035654                                                |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.003                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                                                                                                                                                                                | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CO2 BAG 3 (Bag 3 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 541.718638                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CO BAG 3 (Bag 3 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.099                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | FE BAG 3 (Bag 3 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16.393064                                                                                                                                                                                        | 16.393064                                                |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CH4 BAG 3 (Bag 3 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.005                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | NMOG BAG 3 (Bag 3 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0027                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.013745                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.409099                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.546167                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.512079                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.746299                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14.7                                                                                                                                                                                             | 14.7                                                     |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.019571                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.066346                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.07291                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.080551                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <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>606</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 606   | --                               |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 606                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>605.2</td><td>--</td></tr></table>                           | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 605.2 | --                               |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CO2                                    |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
| Carbon dioxide             | 605.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |
| Manufacturer Test Comments | Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |       |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |   |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |          |    |                                            |          |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |         |    |                              |          |    |  |

Certification Summary Information Report

| Test Group           |               | VFMXT03.57AV              |               |                |     | Evaporative/Refueling Family |                          |        |         | VFMXR0260NDV        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 4 Bin 50     | CO            | 0.41           | --  | --                           | --                       | --     | --      | 0.4                 | 12.5     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 4 Bin 50     | HC-NM         | 0.07           | --  | --                           | --                       | --     | --      | 0.1                 | 0.4      | Pass      |
| CA                   | 50,000 miles  | California LEV-III ULEV50 | CO            | 0.41           | --  | --                           | --                       | --     | --      | 0.4                 | 12.5     | Pass      |

## Certification Summary Information Report

| Test Group                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0260NDV                                       |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091442</b>                        | <b>Test Procedure</b>                 | <b>3 - HWFE</b>                                    |
| <b>Exhaust Test # for this Evap Test</b>       | --                                         | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 05/21/2025                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 111                                                |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3849                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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) |
|-----------------------------------------------------------|-----------------------|----------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0.000834              | --                                                       |
| <b>CO (Carbon Monoxide)</b>                               | 0.035525              | --                                                       |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -1.61403              | --                                                       |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.653534             | --                                                       |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -2.19048              | --                                                       |
| <b>HCHO (Formaldehyde)</b>                                | 0                     | --                                                       |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 25.9                  | 25.9                                                     |
| <b>NOX (Nitrogen Oxide)</b>                               | 0.00432               | --                                                       |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                       |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                       |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                       |
| <b>HC-TOTAL (Total Hydrocarbon)</b>                       | 0.000731              | --                                                       |

| Test Result Name                        | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-----------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b> | 337                   | 337                             |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 337.2                 | --                    |

## Manufacturer Test Comments

Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).

## Certification Summary Information Report

| Test Group           |               | VFMXT03.57AV              |               |                | Evaporative/Refueling Family |                  |                          |        |         | VFMXR0260NDV        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 4 Bin 50     | CREE          | 337            | --                           | --               | --                       | 0      | --      | 337                 | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG          | 0.0000         | --                           | 1.03             | --                       | --     | --      | 0.000               | 999.999  | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NMOG+NOX      | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 0.050    | Pass      |
| Fed                  | 150,000 miles | Federal Tier 4 Bin 50     | NOX           | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG          | 0.0000         | --                           | 1.03             | --                       | --     | --      | 0.000               | 999.999  | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NMOG+NOX      | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 0.050    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | NOX           | 0.0043         | --                           | --               | --                       | --     | --      | 0.004               | 999.999  | 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                                     | VFMXT03.57AV                               | Evaporative/Refueling Family          | VFMXR0260NDV                                       |
|------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------------------|
| <b>Test #</b>                                  | <b>TFMX10091444</b>                        | <b>Test Procedure</b>                 | <b>90 - US06</b>                                   |
| <b>Exhaust Test # for this Evap Test</b>       | --                                         | <b>Test Fuel Type</b>                 | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| <b>Test Date</b>                               | 05/21/2025                                 | <b>Fuel</b>                           | Gasoline                                           |
| <b>Fuel Batch ID</b>                           | 373-B                                      | <b>Fuel Calibration Number</b>        | 111                                                |
| <b>Vehicle Class</b>                           | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) | <b>DF Type</b>                        | Mfr. Determined                                    |
| <b>Verify Test Lab ID</b>                      | APTL                                       |                                       |                                                    |
| <b>E10 Evaporative Test Measurement Method</b> | --                                         |                                       |                                                    |
| <b>Test Start Odometer Reading</b>             | 3880                                       | <b>Odometer Units</b>                 | M                                                  |
| <b>4WD Test Dyno</b>                           | No                                         | <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                 | VFMXT03.57AV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Evaporative/Refueling Family                                                                                                                                                                     | VFMXR0260NDV                                             |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------|----------------------------------|-----|----------------------------------|-------|----|-------------------------------|----------|----------|---------------------------|-------|----|----------------------------------------------|--------|----|----------------------------------|------------|----|----------------------------------|-------|----|-------------------------------|-----------|-----------|---------------------------|-------|----|----------------------------------------------|--------|----|-------------------------|----------|----|----------------------|----------|----|----------------------------------------------------|---------|----|--------------------------------------------|-----------|----|-------------------------------------------------|---------|----|------------------------------------|------|------|----------------------|----------|----|---------------------------------|----------|----|----------------------------------|----------|----|-------------------------|----------|----|------------------------------|----------|----|--|--|
|                            | <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>876.102035</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.576</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.964375</td><td>9.964375</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.011</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0251</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>446.729065</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.294</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>19.528235</td><td>19.528235</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.005</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0112</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.006177</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.356939</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.10053</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.883166</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.66401</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>16.1</td><td>16.1</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.006475</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.013851</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.014266</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.000117</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.019834</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) | 876.102035                       | --  | CO BAG 1 (Bag 1 Carbon Monoxide) | 0.576 | -- | FE BAG 1 (Bag 1 Fuel Economy) | 9.964375 | 9.964375 | CH4 BAG 1 (Bag 1 Methane) | 0.011 | -- | NMOG BAG 1 (Bag 1 Non-methane organic gases) | 0.0251 | -- | CO2 BAG 2 (Bag 2 Carbon Dioxide) | 446.729065 | -- | CO BAG 2 (Bag 2 Carbon Monoxide) | 0.294 | -- | FE BAG 2 (Bag 2 Fuel Economy) | 19.528235 | 19.528235 | CH4 BAG 2 (Bag 2 Methane) | 0.005 | -- | NMOG BAG 2 (Bag 2 Non-methane organic gases) | 0.0112 | -- | METHANE (CH4 - Methane) | 0.006177 | -- | CO (Carbon Monoxide) | 0.356939 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 1.10053 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.883166 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 2.66401 | -- | MFR FE (Manufacturer Fuel Economy) | 16.1 | 16.1 | NOX (Nitrogen Oxide) | 0.006475 | -- | HC-NM (Non-methane Hydrocarbon) | 0.013851 | -- | NMOG (Non-methane organic gases) | 0.014266 | -- | PM (Particulate Matter) | 0.000117 | -- | HC-TOTAL (Total Hydrocarbon) | 0.019834 | -- |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                                                                                                                                                                            | Verify Calculated FE Equivalent Value (miles per gallon) |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO2 BAG 1 (Bag 1 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 876.102035                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO BAG 1 (Bag 1 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.576                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | FE BAG 1 (Bag 1 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9.964375                                                                                                                                                                                         | 9.964375                                                 |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CH4 BAG 1 (Bag 1 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.011                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NMOG BAG 1 (Bag 1 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0251                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO2 BAG 2 (Bag 2 Carbon Dioxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 446.729065                                                                                                                                                                                       | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO BAG 2 (Bag 2 Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.294                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | FE BAG 2 (Bag 2 Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19.528235                                                                                                                                                                                        | 19.528235                                                |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CH4 BAG 2 (Bag 2 Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.005                                                                                                                                                                                            | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NMOG BAG 2 (Bag 2 Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0112                                                                                                                                                                                           | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.006177                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.356939                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.10053                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -0.883166                                                                                                                                                                                        | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.66401                                                                                                                                                                                          | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 16.1                                                                                                                                                                                             | 16.1                                                     |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.006475                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.013851                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.014266                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | PM (Particulate Matter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000117                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.019834                                                                                                                                                                                         | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <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>543</td><td>--</td></tr></table> | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CREE/OPT-CREE  | Carbon-Related Exhaust Emissions | 543 | --                               |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CREE/OPT-CREE                          |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 543                                                                                                                                                                                              | --                                                       |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>542</td><td>--</td></tr></table>                             | Test Result Name                                         | Unrounded Test Result                                    | Verify Calculated CO2            | Carbon dioxide                   | 542 | --                               |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
|                            | Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unrounded Test Result                                                                                                                                                                            | Verify Calculated CO2                                    |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
| Carbon dioxide             | 542                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                                                                                                                                                                               |                                                          |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |
| Manufacturer Test Comments | Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                  |                                                          |                                                          |                                  |                                  |     |                                  |       |    |                               |          |          |                           |       |    |                                              |        |    |                                  |            |    |                                  |       |    |                               |           |           |                           |       |    |                                              |        |    |                         |          |    |                      |          |    |                                                    |         |    |                                            |           |    |                                                 |         |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                         |          |    |                              |          |    |  |  |

Certification Summary Information Report

| Test Group           |               | VFMXT03.57AV              |               |                |     | Evaporative/Refueling Family |                          |        |         | VFMXR0260NDV        |          |           |
|----------------------|---------------|---------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 4 Bin 50     | PM            | 0.0001         | --  | --                           | --                       | --     | --      | 0.000               | 0.006    | Pass      |
| CA                   | 150,000 miles | California LEV-III ULEV50 | PM            | 0.0001         | --  | --                           | --                       | --     | --      | 0.000               | 0.006    | Pass      |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VFMXT03.57AV                                                                                                                                                                                                          | <b>Evaporative/Refueling Family</b>                      | VFMXR0260NDV                                       |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|------------------|-----------------------|----------------------------------------------------------|----------------------------------|----------|----|----------------------|----------|----|----------------------------------------------------|----------|----|--------------------------------------------|-----------|----|-------------------------------------------------|----------|----|------------------------------------|------|------|----------------------|----------|----|---------------------------------|----------|----|----------------------------------|----------|----|------------------------------|----------|----|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>TFMX10091445</b>                                                                                                                                                                                                   | <b>Test Procedure</b>                                    | <b>95 - SC03</b>                                   |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                                                                                                                                    | <b>Test Fuel Type</b>                                    | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 06/10/2025                                                                                                                                                                                                            | <b>Fuel</b>                                              | N/A                                                |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 373-B                                                                                                                                                                                                                 | <b>Fuel Calibration Number</b>                           | 110                                                |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                                                   | <b>DF Type</b>                                           | Mfr. Determined                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | APTL                                                                                                                                                                                                                  |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                                                                                                                                                                    |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3905                                                                                                                                                                                                                  | <b>Odometer Units</b>                                    | M                                                  |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                    | <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                       |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr> </thead> <tbody> <tr> <td>METHANE (CH4 - Methane)</td><td>0.005831</td><td>--</td></tr> <tr> <td>CO (Carbon Monoxide)</td><td>0.042906</td><td>--</td></tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.12715</td><td>--</td></tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.778056</td><td>--</td></tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-1.33152</td><td>--</td></tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td><td>13.9</td><td>13.9</td></tr> <tr> <td>NOX (Nitrogen Oxide)</td><td>0.010336</td><td>--</td></tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td><td>0.001133</td><td>--</td></tr> <tr> <td>NMOG (Non-methane organic gases)</td><td>0.001167</td><td>--</td></tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td><td>0.007371</td><td>--</td></tr> </tbody> </table> |                                                                                                                                                                                                                       |                                                          |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | METHANE (CH4 - Methane)          | 0.005831 | -- | CO (Carbon Monoxide) | 0.042906 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | -1.12715 | -- | DT-EER (Drive Trace Energy Economy Rating) | -0.778056 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | -1.33152 | -- | MFR FE (Manufacturer Fuel Economy) | 13.9 | 13.9 | NOX (Nitrogen Oxide) | 0.010336 | -- | HC-NM (Non-methane Hydrocarbon) | 0.001133 | -- | NMOG (Non-methane organic gases) | 0.001167 | -- | HC-TOTAL (Total Hydrocarbon) | 0.007371 | -- |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                                                                                                                                                                                                 | Verify Calculated FE Equivalent Value (miles per gallon) |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| METHANE (CH4 - Methane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.005831                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| CO (Carbon Monoxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.042906                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| DT-ASCR (Drive Trace Absolute Speed Change Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -1.12715                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| DT-EER (Drive Trace Energy Economy Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.778056                                                                                                                                                                                                             | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1.33152                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| MFR FE (Manufacturer Fuel Economy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13.9                                                                                                                                                                                                                  | 13.9                                                     |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| NOX (Nitrogen Oxide)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.010336                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| HC-NM (Non-methane Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.001133                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| NMOG (Non-methane organic gases)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.001167                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| HC-TOTAL (Total Hydrocarbon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.007371                                                                                                                                                                                                              | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td><td>639</td><td>--</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |                                                          |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE                          | Carbon-Related Exhaust Emissions | 639      | -- |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                                                                                                                                                                                                 | Verify Calculated CREE/OPT-CREE                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 639                                                                                                                                                                                                                   | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>638.8</td><td>--</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                       |                                                          |                                                    | Test Result Name | Unrounded Test Result | Verify Calculated CO2                                    | Carbon dioxide                   | 638.8    | -- |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Test Result Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                                                                                                                                                                                                 | Verify Calculated CO2                                    |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| Carbon dioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 638.8                                                                                                                                                                                                                 | --                                                       |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1). |                                                          |                                                    |                  |                       |                                                          |                                  |          |    |                      |          |    |                                                    |          |    |                                            |           |    |                                                 |          |    |                                    |      |      |                      |          |    |                                 |          |    |                                  |          |    |                              |          |    |

## Certification Summary Information Report

| Test Group                                                                | VFMXT03.57AV                                       | Evaporative/Refueling Family                                              | VFMXR0260NDV |
|---------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------|
| <b>Fuel Properties</b>                                                    |                                                    |                                                                           |              |
| <b>Fuel Batch ID</b>                                                      | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>13</b>    |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 02/21/2017   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 02/23/2017                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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>                                              | 0.747        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.9                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | 17942        |
| <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> | 0.828                                              | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>111</b>   |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 04/30/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 04/30/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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>                                              | 0.751        |
| <b>Fuel Ethanol Volume Percent (%)</b>                                    | 9.5                                                | <b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b> | --           |
| <b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>                          | 38.961                                             | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | 0.834        |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | --                                                 | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>375-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>68</b>    |
| <b>Test Fuel Type</b>                                                     | 28 - Cold CO E10 Regular Gasoline (Tier 3)         | <b>Fuel Batch Calibration Date</b>                                        | 06/03/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 06/03/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |
| <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>                                              | 0.743        |
| <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>                          | 38.786                                             | <b>Fuel Carbon Mass Fraction (E10)</b>                                    | 0.832        |
| <b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b> | --                                                 | <b>Weight Fraction CO2</b>                                                | --           |
| <b>Fuel Batch ID</b>                                                      | <b>373-B</b>                                       | <b>Fuel Calibration Number</b>                                            | <b>110</b>   |
| <b>Test Fuel Type</b>                                                     | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | <b>Fuel Batch Calibration Date</b>                                        | 05/31/2025   |
| <b>Fuel Batch Calibration Effective Date</b>                              | 05/31/2025                                         | <b>Fuel Batch Calibration Ineffective Date</b>                            | 12/31/2100   |

## Certification Summary Information Report

| Test Group                                                         | VFMXT03.57AV | Evaporative/Refueling Family                                       | VFMXR0260NDV |
|--------------------------------------------------------------------|--------------|--------------------------------------------------------------------|--------------|
| Carbon Weight Fraction NMHC                                        | --           | Carbon Weight Fraction HC                                          | --           |
| Exhaust Carbon Weight Fraction                                     | --           | Fuel Methanol Volume Fraction                                      | --           |
| Fuel Density (grams/cubic ft)                                      | --           | Fuel Specific Gravity                                              | 0.75         |
| Fuel Ethanol Volume Percent (%)                                    | 10.2         | Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb) | --           |
| Fuel Net Heat of Combustion (E10) (MJ/kg)                          | 38.579       | Fuel Carbon Mass Fraction (E10)                                    | 0.833        |
| Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0) | --           | Weight Fraction CO2                                                | --           |

## Certification Summary Information Report

|                                |               |                                            |     |             |                                 |                                   |         |                                         |         |
|--------------------------------|---------------|--------------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|-----------------------------------------|---------|
| Test Group                     |               | VFMXT03.57AV                               |     |             | Evaporative/Refueling Family    |                                   |         | VFMXR0260NDV                            |         |
| Consolidated List of Standards |               |                                            |     |             |                                 |                                   |         |                                         |         |
| Exhaust Standards              |               |                                            |     |             |                                 |                                   |         |                                         |         |
| Cert Region                    |               | Federal                                    |     |             | Cert/In-Use Code                |                                   |         | Cert                                    |         |
| Vehicle Class                  |               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | Federal Tier 4 Bin 50                   |         |
| 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     |
| 150,000 miles                  | CO            | --                                         | --  | --          | --                              | --                                | --      | --                                      | 1.7     |
| 150,000 miles                  | CO-COMP       | --                                         | --  | --          | --                              | --                                | --      | --                                      | 4.2     |
| 150,000 miles                  | CREE          | --                                         | --  | --          | --                              | --                                | --      | 0                                       | 999.999 |
| 150,000 miles                  | HCHO          | --                                         | --  | --          | --                              | --                                | --      | --                                      | 0.004   |
| 150,000 miles                  | METHANE       | --                                         | --  | --          | --                              | --                                | --      | --                                      | 0.030   |
| 150,000 miles                  | N2O           | --                                         | --  | --          | --                              | --                                | --      | --                                      | 0.010   |
| 150,000 miles                  | NMOG          | --                                         | --  | 1.1         | --                              | --                                | --      | --                                      | 999.999 |
| 150,000 miles                  | NMOG+NOX      | --                                         | --  | --          | --                              | --                                | 1.0     | --                                      | 0.050   |
| 150,000 miles                  | NMOG+NOX-COMP | --                                         | --  | --          | --                              | --                                | --      | --                                      | 0.060   |
| 150,000 miles                  | NOX           | --                                         | --  | --          | --                              | --                                | --      | --                                      | 999.999 |
| 150,000 miles                  | OPT-CREE      | --                                         | --  | --          | --                              | --                                | --      | 0                                       | 999.999 |
| 150,000 miles                  | PM            | --                                         | --  | --          | --                              | --                                | --      | --                                      | 0.003   |
|                                |               |                                            |     |             |                                 |                                   |         |                                         |         |
| Cert Region                    |               | Federal                                    |     |             | Cert/In-Use Code                |                                   |         | Cert                                    |         |
| Vehicle Class                  |               | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |     |             | Standard Level                  |                                   |         | Federal Tier 4 Bin 50                   |         |
| Fuel                           |               | Gasoline                                   |     |             | Test Procedure                  |                                   |         | Cold CO                                 |         |
| Useful Life                    | Emission Name | Rounded Result                             | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                                  | Std     |
| 50,000 miles                   | CO            | --                                         | --  | --          | --                              | --                                | --      | --                                      | 12.5    |
| 120,000 miles                  | HC-NM         | --                                         | --  | --          | --                              | --                                | --      | --                                      | 0.4     |
|                                |               |                                            |     |             |                                 |                                   |         |                                         |         |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Test Group</b>    |                      | VFMXT03.57AV                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VFMXR0260NDV              |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III ULEV50 |            |
| <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                 | --                                         | --         | 1.03               | --                                     | --                                       | --             | --                        | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | --         | --                 | --                                     | --                                       | 1              | --                        | 0.050      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | --                        | 999.999    |

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Cert Region</b>   |                      | Federal                                    |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 4 Bin 50 |            |
| <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        | CREE                 | --                                         | --         | --                 | --                                     | --                                       | --             | 0                     | 999.999    |
| 150,000 miles        | NMOG                 | --                                         | --         | 1.03               | --                                     | --                                       | --             | --                    | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | --         | --                 | --                                     | --                                       | 1.0            | --                    | 0.050      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | --                    | 999.999    |
| 150,000 miles        | OPT-CREE             | --                                         | --         | --                 | --                                     | --                                       | --             | 0                     | 999.999    |

## Certification Summary Information Report

|                      |                      |                                            |            |                    |                                        |                                          |                |                                         |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------------------------|------------|
| <b>Test Group</b>    |                      | VFMXT03.57AV                               |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | VFMXR0260NDV                            |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                                    |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III ULEV50               |            |
| <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                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 1.7        |
| 150,000 miles        | CO-COMP              | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 4.2        |
| 150,000 miles        | HCHO                 | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 0.004      |
| 150,000 miles        | NMOG                 | --                                         | --         | 1.1                | --                                     | --                                       | --             | --                                      | 999.999    |
| 150,000 miles        | NMOG+NOX             | --                                         | --         | --                 | --                                     | --                                       | 1              | --                                      | 0.050      |
| 150,000 miles        | NMOG+NOX-COMP        | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 0.060      |
| 150,000 miles        | NOX                  | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 999.999    |
| 150,000 miles        | PM                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                                      | 0.001      |

|                      |                      |                                            |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Cert Region</b>   |                      | Federal                                    |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 4 Bin 50 |            |
| <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        | PM                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                    | 0.006      |

|                      |                      |                                            |            |                    |                                        |                                          |                |                           |            |
|----------------------|----------------------|--------------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|---------------------------|------------|
| <b>Cert Region</b>   |                      | California + CAA Section 177 states        |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Both                      |            |
| <b>Vehicle Class</b> |                      | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |            |                    | <b>Standard Level</b>                  |                                          |                | California LEV-III ULEV50 |            |
| <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                   | --                                         | --         | --                 | --                                     | --                                       | --             | --                        | 12.5       |

## Certification Summary Information Report

|                      |                                            |                       |            |                                     |                                        |                                          |                           |               |            |
|----------------------|--------------------------------------------|-----------------------|------------|-------------------------------------|----------------------------------------|------------------------------------------|---------------------------|---------------|------------|
| <b>Test Group</b>    | VFMXT03.57AV                               |                       |            | <b>Evaporative/Refueling Family</b> |                                        |                                          | VFMXR0260NDV              |               |            |
| <b>Cert Region</b>   | California + CAA Section 177 states        |                       |            | <b>Cert/In-Use Code</b>             |                                        |                                          | Both                      |               |            |
| <b>Vehicle Class</b> | LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000) |                       |            | <b>Standard Level</b>               |                                        |                                          | California LEV-III ULEV50 |               |            |
| <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        | PM                                         | --                    | --         | --                                  | --                                     | --                                       | --                        | --            | 0.006      |

## Evaporative/Refueling Standards

|                              |               |                |                |                |       |                     |  |
|------------------------------|---------------|----------------|----------------|----------------|-------|---------------------|--|
| Evaporative/Refueling Family |               | VFMXR0260NDV   |                | 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 | --             |                | 0.500 | 0.0000              |  |

|                              |                         |               |                |                                         |        |  |
|------------------------------|-------------------------|---------------|----------------|-----------------------------------------|--------|--|
| Evaporative/Refueling Family | VFMXR0260NDV            |               | Cert Region    | California + CAA Section 177 states     |        |  |
| Cert/In-Use Code             | Both                    |               | Standard Level | California LEV-III 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           | OMHCE         | --             | 0.500                                   | 0.0000 |  |

|                              |               |                           |                |                |      |                     |  |
|------------------------------|---------------|---------------------------|----------------|----------------|------|---------------------|--|
| Evaporative/Refueling Family |               | VFMXR0260NDV              |                | 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 |               | VFMXR0260NDV             |                | 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                 | --             | 0.020          | 0      |                     |  |

## Certification Summary Information Report

|                              |               |                                    |                |                              |        |                                         |  |
|------------------------------|---------------|------------------------------------|----------------|------------------------------|--------|-----------------------------------------|--|
| Test Group                   |               | VFMXT03.57AV                       |                | Evaporative/Refueling Family |        | VFMXR0260NDV                            |  |
| Evaporative/Refueling Family |               | VFMXR0260NDV                       |                | 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                     | --             | 0.500                        | 0.0000 |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0260NDV                       |                | Cert Region                  |        | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |               | Both                               |                | Standard Level               |        | California LEV-III Zero Evap (Option 2) |  |
| Test Procedure               |               | 2-day evap                         |                |                              |        |                                         |  |
| Fuel                         | Useful Life   | Emission Name                      | Rounded Result | Std                          | Add DF |                                         |  |
| Gasoline                     | 150,000 miles | OMHCE                              | --             | 0.500                        | 0.0000 |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0260NDV                       |                | Cert Region                  |        | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |               | Both                               |                | Standard Level               |        | California LEV-III 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 | OMHCE                              | --             | 0.20                         | 0.003  |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0260NDV                       |                | 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                         | 0.003  |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |
| Evaporative/Refueling Family |               | VFMXR0260NDV                       |                | Cert Region                  |        | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |               | Both                               |                | Standard Level               |        | California LEV-III 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                           | --             | 0.020                        | 0      |                                         |  |
|                              |               |                                    |                |                              |        |                                         |  |

Certification Summary Information Report

|                              |  |                           |  |                              |  |                                         |  |
|------------------------------|--|---------------------------|--|------------------------------|--|-----------------------------------------|--|
| Test Group                   |  | VFMXT03.57AV              |  | Evaporative/Refueling Family |  | VFMXR0260NDV                            |  |
| Evaporative/Refueling Family |  | VFMXR0260NDV              |  | Cert Region                  |  | California + CAA Section 177 states     |  |
| Cert/In-Use Code             |  | Both                      |  | Standard Level               |  | California LEV-III Zero Evap (Option 2) |  |
| Test Procedure               |  | Federal Fuel Running Loss |  |                              |  |                                         |  |
| Fuel                         |  | Useful Life               |  | Emission Name                |  | Rounded Result                          |  |
| Std                          |  | Add DF                    |  |                              |  |                                         |  |
| Gasoline                     |  | 150,000 miles             |  | OMHCE                        |  | --                                      |  |
|                              |  |                           |  |                              |  | 0.05                                    |  |
|                              |  |                           |  |                              |  | 0.000                                   |  |

## Certification Summary Information Report

| Test Group           |                                                                 | VFMXT03.57AV       | Evaporative/Refueling Family                       | VFMXR0260NDV |
|----------------------|-----------------------------------------------------------------|--------------------|----------------------------------------------------|--------------|
| 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                             |                                                            | VFMXT03.57AV | Evaporative/Refueling Family |                                                 | VFMXR0260NDV |
|----------------------------------------|------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------|--------------|
| 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                    |                                                                   | VFMXT03.57AV | Evaporative/Refueling Family                             |                            | VFMXR0260NDV |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------|--------------|
| 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                    |                                 | VFMXT03.57AV | Evaporative/Refueling Family |                                  | VFMXR0260NDV |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|--------------|
| 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                     |              |



## **SECTION 8**

### **Emission Testing Waiver Statements**

Refer to Section 14.01.00.00 of the Common Section for  
Statements of Compliance.



## SECTION 8

### Emission Testing Waiver Statements and Statements of Compliance

#### Statement of Compliance for test group VFMXT03.57AV

Ford Motor Company's test and production vehicles do not have defeat devices. All AECDs have been declared and described in the application. This test group has been designed and engineered to comply with 40 CFR 86.1809-12 (prohibition of defeat devices), satisfies 40 CFR 86.1844-01 (application submittal requirements for AECDs), and does not utilize alternate emissions control maps that are unique for testing purposes relative to on-road operation.

Is the transmission part of any AECD, for example, by receiving outputs from the ECU or providing inputs to the ECU, in any emission control strategy, for example, engine and/or catalyst warm-up?  
If yes, please describe, including purpose, entry/exit conditions, actuations, and justifications.

Ford describes the transmission controls and potential interaction effects within the confidential AECD documentation found in section 16.05.00 of the common section area of the application submittals. This documentation covers the purpose, inputs, controlled actions, and justifications. For example, as referenced in the Drive Speed Control section of that document, the transmission can receive requests from the ECU to delay upshifts based on cold engine coolant temperature and/or low inferred catalyst temperature to assist with engine or catalyst warm-up.

Does the transmission behave and perform the same as, or differently than, while on road versus on a dynamometer?  
Please explain any differences.

Ford does not attempt to discern whether the vehicle is operating on a dynamometer or on the road. However, there are certain conditions that can cause the transmission to operate differently based on the sensed inputs that may not be encountered during dynamometer testing. For example, when climbing grades or when towing, the transmission will make gear ratio adjustments to compensate against excessive engine lugging and reduced vehicle response. There can also be unique transmission scheduling in different customer selectable drive modes, such as EcoSelect, Sport, Snow, Rock Crawl, etc. The types of conditions that are anticipated to cause transmission adjustments are described in the confidential AECD descriptions located in 16.05.00 of the common section. For customer-selectable drive modes that could reasonably be driven over emission test cycles, Ford evaluates emission performance to assure that these modes meet applicable emission standards.

Special dynamometer test modes are required for certain vehicle technologies such as start/stop and HEVs to assure that fault conditions are not set while operating on two-wheel drive dynamometers. This allows the vehicles to behave normally, as they would on the road, rather than causing default/FMEM actions to occur due to significant wheel speed differences between the front and rear axles.

For additional statements of compliance, please refer to Section 14.01.00.00 of the Common Section.

# Statement of Compliance

## 2-Day Diurnal Evaporative Certification Test (VFMXR0200GDG)

Based on engineering evaluation of development 2-Day diurnal evaporative emissions test data, the applicable test group complies with evaporative emission standard for the supplemental two- diurnal test sequence for as described in 40 CFR 86.1829-01.

Test Group: VFMXT03.57AV  
Issued: 02/17/2026  
Revised:



## **SECTION 9**

### **OBD-II System Description**

For a description of the OBD System utilized for this Test Group, refer to Section 16.06.00.00 of the Common Section.



## **SECTION 11**

### **AECD Description**

For a description of the AECDs utilized in this Test Group,  
refer to Section 16.00.05.00 of this application,  
and 16.05 of the Common Section.



## **SECTION 12**

### **Description of Vehicles Covered by Certificate and Testing Parameters**



## **SECTION 12**

# **Description of Vehicles Covered by Certificate and Testing Parameters**

## 12.00.01.00 Common Family Parameters

Test Group: VFMXT03.57AV - Engine Config Param 2 - Expedition

| Test Group Information : Expedition                                   |                                           |
|-----------------------------------------------------------------------|-------------------------------------------|
| Vehicle/Engine Class                                                  | LDT4                                      |
| Vehicle Fuel Category                                                 | Single Fuel                               |
| Operating Fuel 1                                                      | Gasoline                                  |
| Operating Fuel 2                                                      | N/A                                       |
|                                                                       |                                           |
| Engine Displacement (liters)                                          | 3.5                                       |
| SAE net HP @ RPM (91 Ron)                                             | 380 @ 5250 RPM                            |
| SAE net torque ft-lb @ RPM                                            | 470 @ 3000 RPM                            |
|                                                                       |                                           |
| VECI - Emission Control System                                        |                                           |
| Air Aspiration Method                                                 | Turbocharged                              |
| Charge Air Cooler Type                                                | Air                                       |
| Exhaust Gas Recirculation (EGR)                                       | Yes                                       |
| Cooled EGR                                                            | Yes                                       |
| Air injection Type (AIR)                                              | Not Applicable                            |
| After-Treatment Type                                                  | TWC+GPF                                   |
| Fuel Metering System 1                                                | Spark Ignition direct & ported injection  |
| Fuel Metering System 2                                                | N/A                                       |
| Heated oxygen sensor (HO <sub>2</sub> S)                              | Yes                                       |
| Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO <sub>2</sub> S) | Yes                                       |
| Feedback Sensor Configuration                                         | 2WR-HO <sub>2</sub> S, 2HO <sub>2</sub> S |
|                                                                       |                                           |
| Shift Schedules                                                       | See Common Section                        |
| EVAP Canister working Capacity                                        | See Common Section                        |
| EVAP Canister Bed Volume                                              | See Common Section                        |
| Fuel Tank Temperature Profile                                         | See Common Section                        |

| Exhaust Calibration | Evaporative Calibration | Application | Transmission | Leak Check | Vehicle                    |
|---------------------|-------------------------|-------------|--------------|------------|----------------------------|
| VTBDBMN105          | VFMXR0200GDG            | 50S (CAL)   | A/T          | 0.020      | Expedition 24.7g Fuel Tank |
| VTBDBMN205          | VFMXR0260NDV            | 50S (CAL)   | A/T          | 0.020      | Expedition 30.0g Fuel Tank |

**Reference Specifications**

|                                            |                                       |                                                                                                                                               |
|--------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Spark Plug                                 | Type: DYFS-12YPT<br>Gap: 0.70-0.80 mm | Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies): |
| Ignition Timing °BTDC (No SPOUT connector) | PCM Controlled                        |                                                                                                                                               |
| Idle RPM                                   | PCM Controlled                        |                                                                                                                                               |
| Target (Base) in Drive (A/C OFF/A/C ON)    | 575/575                               |                                                                                                                                               |
| /C Idle in Drive at high ambients          | 650                                   |                                                                                                                                               |

| Potential Idle/Drive Speed Modifier | Function Utilized (Y/N) | Purpose                                                                                   |
|-------------------------------------|-------------------------|-------------------------------------------------------------------------------------------|
| Low or high air charge temperature  | N                       | Heater, A/C or engine cooling performance                                                 |
| Low catalyst temperature            | Y                       | Achieve/maintain light off                                                                |
| Low engine coolant temperature      | Y                       | Combustion stability                                                                      |
| Low or high ambient temperature     | Y                       | Heater or A/C performance                                                                 |
| High transmission oil temperature   | N                       | Ensure adequate fluid pressure                                                            |
| Low battery voltage                 | Y                       | Avoid stalling or no-start                                                                |
| High Alternator load                | Y                       | Preserve battery life and avoid low voltage                                               |
| High-speed fan operation            | N                       | For engine and A/C condenser cooling                                                      |
| Extended neutral idle time          | Y                       | Maintain catalyst temperature                                                             |
| Power steering pressure             | N                       | Ensure adequate P/S assistance                                                            |
| High Altitude                       | N                       | Maintain air mass flow to avoid stalling                                                  |
| Alternate calibration               | Y                       | Avoid spark plug fouling during plant/dealer handling                                     |
| Drive Speed Control or Shift Delay  | N                       | Increase engine speed to improve cabin heating or cooling                                 |
| Heated Windshield                   | N                       | Maintain charging margin                                                                  |
| ETC Failure                         | Y                       | Electronic Throttle Failure Min RPM                                                       |
| A/C Adder (50RPM)                   | Y                       | NVH Improvement                                                                           |
| High auxiliary loads                | N                       | Belt tensioner durability on BiSG and HV Motor cooling                                    |
| Eco Idle Feature (Park/Neutral)     | N                       | Raise idle speed to reduce fuel consumption and engine off time during Park/Neutral state |

| Emission Component                                               | Sensed Parameter                                                         | Controlled Parameter    | Justification <sup>1</sup>                                                                    | Calibration                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ELECTRONICS – PCM<sup>2</sup></b>                             |                                                                          |                         |                                                                                               |                                                                                                                                                                                                                                                                                          |
| <b>FUEL</b>                                                      |                                                                          |                         |                                                                                               |                                                                                                                                                                                                                                                                                          |
| Fuel Injector (DI)                                               | Signal from PCM                                                          | Fuel Flow               | N/A                                                                                           | Static Flow Rate: 821 g/min                                                                                                                                                                                                                                                              |
| Fuel Injector (PFI)                                              | Signal from PCN                                                          | Fuel Flow               | N/A                                                                                           | Static Flow Rate: 128 g/min                                                                                                                                                                                                                                                              |
| Fuel Pressure (DI)                                               | Signal from PCM                                                          | Fuel Pressure           | N/A                                                                                           | 250 bar (25 MPa)                                                                                                                                                                                                                                                                         |
| Regulated Fuel Pressure (PFI)                                    | Signal from PCM                                                          | Fuel Pressure           | N/A                                                                                           | 380-500 kpa                                                                                                                                                                                                                                                                              |
| Fuel Pump (DI)                                                   | Signal from PCM                                                          | Fuel Flow               | N/A                                                                                           | DI pump: Up to 1.3 cc/rev for 3 lobe, 5.5mm lift (theoretical delivery volume)                                                                                                                                                                                                           |
| Fuel Pump (PFI)                                                  | Signal from PCM                                                          | Fuel Flow               | N/A                                                                                           | 170 lph @ 12.0V/550kpa                                                                                                                                                                                                                                                                   |
| Torque Based Electronic Throttle Control                         | Signal from PCM                                                          | None                    | Operates in FTP                                                                               | Throttle Diameter: 68 mm                                                                                                                                                                                                                                                                 |
| <b>Fuel System Control Strategy<sup>2</sup></b>                  |                                                                          |                         |                                                                                               |                                                                                                                                                                                                                                                                                          |
| Open loop enrichment for driver torque demand                    | Throttle Position or Pedal Position or Engine LOAD, and Engine RPM       | Air-Fuel Ratio (LAMBSE) | Protection against damage or accident; provides additional power under extended torque demand | See Section 16.00.05.00 for air-fuel calibration (LAMBSE) in function "ol_lam_pwr_a_m" if accelerator pedal is greater than "FN311P" (90%) for "ol_tm_pwr_dly_a_m" seconds. Otherwise, open loop target, "OL_LAM_DES" is 1.00 (stoich). * and the entry conditions in function "FN311P". |
| Open Loop Delay Timers                                           | Time and Gear                                                            | Delay open loop fuel    | Allows time for downshift; limit enrichment to unusual conditions                             | See Section 16.00.05.00 for delay time calibration "FN1311P" and the maximum open-loop count-up time, "ol_tm_pwr_dly_a_m"                                                                                                                                                                |
| Open Loop Enrichment Catalyst Protection                         | Inferred Catalyst Temperature                                            | Air-Fuel Ratio (LAMBSE) | Protection against damage                                                                     | See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO," "CAT_TMR_THRES"                                                                                                    |
| Emission Component                                               | Sensed Parameter                                                         | Controlled Parameter    | Justification <sup>1</sup>                                                                    | Calibration                                                                                                                                                                                                                                                                              |
| Open Loop Enrichment EGO Protection                              | Inferred Oxygen Sensor Temperature                                       | Air-Fuel Ratio (LAMBSE) | Protection against damage                                                                     | See Section 16.00.05.00 for inferred EGO temperature to trigger enrichment, "FEGO_MAX"                                                                                                                                                                                                   |
| Open Loop Enrichment Engine/Exhaust Manifold Protection          | Inferred Exhaust Manifold Flange Temperature                             | Air-Fuel Ratio (LAMBSE) | Protection against damage                                                                     | See Section 16.00.05.00 for inferred exhaust flange temperature, "FLN_MAX" or "FLN_MAX_LO" and "FLN_MAX_HI" and the time delay on FLN_MAX_LO," "FLN_TMR_THRES"                                                                                                                           |
| Open Loop Enrichment Following Deceleration Fuel Shut-Off (DFSO) | Injector state, inferred catalyst O <sub>2</sub> stored, and CMS voltage | Air-Fuel Ratio (LAMBSE) | Substantially demonstrated on FTP                                                             | See Section 16.00.05.00 for air-fuel ratio utilized following fuel shut-off event, "LAM_REACT"                                                                                                                                                                                           |
| <b>CRANKCASE</b>                                                 |                                                                          |                         |                                                                                               |                                                                                                                                                                                                                                                                                          |
| Crankcase Ventilation Oil Separator Assembly                     | Manifold Vacuum                                                          | Air Flow to Engine      | Operates in FTP                                                                               | EV#:297<br>2.55-3.75 SCFM @ 3" Hg<br>2.0-3.2 SCFM @ 8" Hg<br>0.85-1.65 SCFM @ 15" Hg                                                                                                                                                                                                     |
| Crankcase Ventilation Oil Separator Assembly – Not Heated        | Ambient Temp Battery Voltage                                             | PCV Heating             | Vehicle Safety                                                                                | N/A                                                                                                                                                                                                                                                                                      |

| Emission Component                                | Sensed Parameter                                         | Controlled Parameter   | Justification <sup>1</sup>                                                                                                                                                | Calibration                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|----------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EGR Control Strategy                              |                                                          |                        |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| EGR base table                                    | Requested Torque, Percent Torque, Engine Speed, and Load | EGR Rate               | Substantially demonstrated on FTP/SFTP. Base EGR optimized for fuel efficiency within constraints of combustion stability, drivability, emissions, and vacuum limitations | See Section 16.00.05.00 for the following tables:<br>HDFX_EGR_MAXTOL_STP_0 (intake cam position = 0 degrees)<br><br>HDFX_EGR_MAXTOL_STP_1 (intake cam position = 7 degrees)<br><br>HDFX_EGR_MAXTOL_STP_2 (intake cam position = 14 degrees)<br><br>HDFX_EGR_MAXTOL_STP_3 (intake cam position = 21 degrees)<br><br>HDFX_EGR_MAXTOL_STP_4 (intake cam position = 28 degrees)<br><br>HDFX_EGR_MAXTOL_STP_5 (intake cam position = 35 degrees) |
| EGR Limitation for Hot Intake Air Temperatures    | Air Charge Temperature (ACT)                             | Multiplier on EGR Rate | Protection against damage or accident due to combustion stability degradation, detonation, and preignition.                                                               | See Section 16.00.05.00 for EGR_ACT_MAX                                                                                                                                                                                                                                                                                                                                                                                                     |
| EGR Limitation for Cold Intake Air Temperatures   | Air Charge Temperature (ACT)                             | Multiplier on EGR Rate | Protection against damage or accident due to icing in the intake and throttle areas.                                                                                      | See Section 16.00.05.00 for EGR_ACT_MIN                                                                                                                                                                                                                                                                                                                                                                                                     |
| EGR Limitation/Delay for Cold Engine Temperatures | Engine Coolant Temperature (ECT)                         | Multiplier on EGR Rate | Substantially demonstrated on FTP (ambient and 20F). Required to ensure proper combustion stability.                                                                      | See Section 16.00.05.00 for function HDFX_EGR_ECT_MUL_0 (Note: other functions are used based on intake cam timing position, but all functions calibrated the same.)                                                                                                                                                                                                                                                                        |

| Emission Component                                      | Sensed Parameter                                         | Controlled Parameter                  | Justification <sup>1</sup>                                                                                                    | Calibration                                                                                                                                                                              |
|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VCT Control Strategy                                    |                                                          |                                       |                                                                                                                               |                                                                                                                                                                                          |
| Cam timing based on requested torque and percent torque | Requested Torque, Percent Torque, Engine Speed, and Load | Cam Phase Timing                      | VCT optimized for fuel efficiency within constraints of combustion stability, driveability, emissions, and vacuum limitations | See Section 16.00.05.00 for "hdfcfg_ix_fe_v" Best FE mapped points in combination with "FNHDFX_BEST_FE_DIST" (eng_spd, load) and "FNHDFX_BEST_DRIVE_DIST" (eng_spd, pct_load) distances. |
| Cam Timing Limitation for Combustion Stability          | Requested Torque and Engine Speed                        | Cam Phase Timing                      | Protection against damage or accident                                                                                         | See Section 16.00.05.00 for "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"                                                                                                    |
| Cam Actuator Limitation for Oil Temperature             | Oil Temperature; or Time-since-start and ECT-at-start    | Cam Phase Timing                      | Protection against damage or accident                                                                                         | See Section 16.00.05.00 for "FNHDFX_FNEOT_ADV_INT" and "FNHDFX_FNEOT_EXH"                                                                                                                |
| Cam Actuator Limitation for start-up                    | Engine Coolant Temp. at start and time-since-start       | Cam Phase Timing                      | Protection against damage or accident                                                                                         | See Section 16.00.05.00 for "fnvct_enable_delay" and "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"                                                                           |
| Cam Retard Limitation under Hi Torque Demand n          | Engine Speed and Requested Torque                        | Cam Phase Timing or Throttle Position | Protection against damage or accident under high torque demand                                                                | See Section 16.00.05.00 for Contained within the Best FE, Best Drv noted above and the Optimal Performance "FN_HDFX_OP_IVO" and "FN_HDFX_OP_EVC" calibrations.                           |
| Cam Actuator Limitation for ACT Effects                 | Air Charge Temperature                                   | Cam Phase Timing                      | Protection against damage or accident by maintaining combustion stability                                                     | See Section 16.00.05.00 for "FNHDFX_VCTLIM_EXH"                                                                                                                                          |

| Emission Component | Sensed Parameter    | Controlled Parameter | Justification <sup>1</sup> | Calibration            |
|--------------------|---------------------|----------------------|----------------------------|------------------------|
| ENGINE COOLING     |                     |                      |                            |                        |
| Thermostat         | Coolant Temperature | Coolant Flow         | Engine Protection          | Start to Open: 87.8° C |

**2027 MY Exhaust Emissions Parts List**  
**Test Group: VFMXT03.57AV**

| <b>Carline Name</b>               | <b>Certification Level</b> | <b>Cert Code</b> | <b>Calibration(s)</b> | <b>PCM Assembly Part #</b> | <b>Date</b> |
|-----------------------------------|----------------------------|------------------|-----------------------|----------------------------|-------------|
| EXPEDITION 2WD,<br>EXPEDITION 4WD | Initial                    | VTBDBMN10000     | VTBDBMN105            | PVL1A-12A650-DB            | 02/09/2026  |
| EXPEDITION 2WD,<br>EXPEDITION 4WD | Initial                    | VTBDBMN20000     | VTBDBMN205            | PVL1A-12A650-EB            | 02/09/2026  |

## 2027 TEST VEHICLE REQUIREMENTS

|                               | <u>FUL Exhaust<br/>Data Vehicle</u>                    | <u>Evaporative<br/>Data Vehicle (24 Gal)</u> | <u>CAP 2000 Evap.<br/>Data Vehicle<br/>(30.0 gal)</u> |
|-------------------------------|--------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|
| <b>Test Group</b>             | TFMXT03.57AT                                           | PFMXT02.73JK                                 | KFMXT05.03DN                                          |
| <b>EVAP Emission Family</b>   | TFMXR0260NDV                                           | PFMXR0200GDG                                 | KFMXR0260NDV                                          |
| <b>Displacement Liters</b>    | 3.5L GTPFDI                                            | 2.7L GTPFDI                                  | 5.0L GTPFDI                                           |
| <b>Engine Code</b>            | TTBDBMN200                                             | JTFCWQNB05                                   | JTFCAVNC06                                            |
| <b>Fuel Tank Code</b>         | (30.0 Gal)                                             | F2 (23.9 Gal)                                | F4 (37.1 gal)                                         |
| <b>Exhaust Control System</b> | DFI, SFI, 2WR-HO2S,<br>EGR, EGRC<br>2TWC,2HO2S,2TC,CAC | DFI, SFI, 2WR-HO2S,<br>2TWC,2HO2S,2TC,CAC    | 2TWC, 2HO2S, 2WR-HO2S,<br>DFI, SFI                    |
| <b>Model</b>                  | Expedition                                             | F150 4X4                                     | F150 4X4                                              |
| <b>Equivalent Test Weight</b> | 6500 lbs                                               | 5250 lbs                                     |                                                       |
| <b>Curb Weight</b>            | 6042 lbs                                               | 4903 lbs                                     | 5500 lbs                                              |
| <b>GVWR</b>                   | 7720 lbs                                               | 7000 lbs                                     | 5217 lbs                                              |
|                               |                                                        |                                              | 7850 lbs                                              |
| <b>THP/DPA</b>                | 19.12                                                  | 19.5                                         |                                                       |
| <b>F1</b>                     | 40.84                                                  | 41.31                                        | 20.3                                                  |
| <b>F2</b>                     | 0.6556                                                 | 0.1955                                       | 44.39                                                 |
| <b>F3</b>                     | 0.0279                                                 | 0.03765                                      | 0.1933                                                |
|                               |                                                        |                                              | 0.03931                                               |
| <b>Axle Ratio</b>             | 3.73                                                   | 3.73                                         | 3.73                                                  |
| <b>N/V Ratio (RPM/MPH)</b>    | 25.3                                                   | 25.7                                         |                                                       |
|                               |                                                        |                                              | 25.7                                                  |
| <b>Tires</b>                  | P265/70R18,                                            | LT275/65R18                                  |                                                       |
| <b>Vehicle ID No.</b>         | TBD1-3.5-J-230                                         | JFC1-2.7-032                                 | JFC1-5.0-J-029                                        |
|                               | 00                                                     | 00                                           |                                                       |
| <b>Configuration Number</b>   |                                                        |                                              | 0                                                     |
|                               |                                                        |                                              | 2018                                                  |
| <b>Model Year</b>             | 2026 MY                                                | 2018 MY                                      |                                                       |

Test Group: VFMXT03.57AV  
 Issued: 02/17/2026  
 Revised:



## **2026MY R10 to 2027MY R05 Changes:**

27MY R05 release to support PP builds. The strategy and calibration changes contained herein do not affect tailpipe/evaporative emissions or fuel economy. OBD SELF-CERT STILL APPLIES.

### **ENGINE CONTROL STRATEGY (PCM / ECM) CHANGES:**

PXNS5 to PXNV4

general bug fixes; FbP compares are attached in conclusions

- fix for GPF diagnostic reporting
- GSM lock delete implementation
- CKCPM improvements

### **ENGINE CALIBRATION CHANGES:**

- The calibration for the turbo actuator change has been updated/optimized for motor protect thresholds, gear ratio, motor inertia, fine motion control and max e-wastegate (eWG) travel.
- Fixing spark accuracy in EGR regions. Updates to octane learning when EGR is active to improve KOM precision and BDL spark accuracy. No impact to any regions beyond 0.8 Load. Changes have also been applied to 27MY P702 3.5L GTDI.
- Set max reset time after last button press to 0 for cabin sanitization to comply with APR (non functional, not used on this program)
- pxcota\_b\_cma\_mode\_s\_ = 0 is now required for R00 and later Cal releases to support CAN Message Authentication (CMA) alignment with RQT-001403-728066 to Disable CMA Development Mode.

### **ENGINE OBD CHANGES:**

- Finalized OBD calibration for R05.

### **TRANSMISSION / DRIVELINE CALIBRATION CHANGES:**

Transmission/Driveline Calibration Changes–

Base Transmission–

- Added transmission parameters associated with the GSM lock delete implementation.
- Added transmission parameters associated with enabling neutral hold entry while in dyno mode.

Electrical Functional/TEAM–

- Added Transmission OBD non-modifiable calibration parameter to support TEAM decoder macro to compare team data with team decoder.
- Updated TEAM Event 284 filter threshold to disable it ability to set in all programs. Data analysis indicated that this TEAM event was setting due to normal torque converter operation. A second level higher value TEAM event indicating a real TCC issue remains active.
- Updated TEAM Event 710 filter threshold to disable it ability to set in all programs. This TEAM event does not provide any added value to root cause investigation into ISSB issues. Other TEAM events related to ISSB function will remain active.

### **TRANSMISSION OBD CHANGES:**

- P0C2C (Electric Transmission Fluid Pump Control Module Feedback Signal Range/Performance) - MIL - Updated Transmission OBD ATSSD bitmask to enable running of ePump fault detection logic during KOEO self-test. (3 to 2)
- P1706\_00 (High Vehicle Speed Observed in Park) – P179D\_00 (Neutral Mode Exceeded Speed/Distance Conditions) – non-MIL – Updated various Transmission OBD speed, distance and event thresholds, related to detecting improper towing and park pawl ratcheting, to align with park systems test data.
- P215C (Output Shaft Speed / Wheel Speed Correlation) - non-MIL - Updated Transmission OBD positive and negative wheel speed rate of change thresholds to add robustness against normal operation wheel rock erroneously triggering fault detection logic.
- P215C (Output Shaft Speed / Wheel Speed Correlation) - non-MIL - Updated Transmission OBD maximum axle ratio used in OSS-VSPD ration comparison logic.

### **HARDWARE CHANGES:**

- The turbo assembly has been updated with a similar eWG actuator from a different supplier (from Bosch to Hella). Except for the updated actuator, the turbo assembly is the same as previous model years.
- GSM (Gear shift module) lock delete TVM action.

Test Group: VFMXT03.57AV

Issued: 02/12/2026

Revised:



Vehicle Description Report

Test Group: VFMXT03.57AV

|                         |                     |                     |                         |                         |
|-------------------------|---------------------|---------------------|-------------------------|-------------------------|
| ID Number               | 5300509             | 5300525             | 5300510                 | 5300520                 |
| Displacement            | 3.5                 | 3.5                 | 3.5                     | 3.5                     |
| Cert Code               | VTBDBMN10000        | VTBDBMN20000        | VTBDBMN10000            | VTBDBMN20000            |
| Fuel Tank(s)            | US                  | UL                  | US                      | UL                      |
| Carline                 | EXPEDITION 2WD      | EXPEDITION 2WD      | EXPEDITION 4WD          | EXPEDITION 4WD          |
| Wheel Configuration     | Standard            | Standard            | Standard                | Standard                |
| Body Style              | Utility             | Utility Extended    | Utility                 | Utility Extended        |
| Wheelbase               | 122.5               | 131.6               | 122.5                   | 131.6                   |
| Transcode Combo         | EUA                 | EUA                 | EUA                     | EUA                     |
| Curb Weight             | 5530                | 5647                | 5826                    | 5952                    |
| ETW                     | 6000                | 6000                | 6000                    | 6500                    |
| Loaded Weight LVW       | 5830                | 5947                | 6126                    | 6252                    |
| ALVW-ETW                | 6500                | 6500                | 6500                    | 7000                    |
| Adj. Loaded Weight      | 6453                | 6573                | 6725                    | 6851                    |
| GVWR                    | 7375                | 7500                | 7625                    | 7750                    |
| GCWR                    | 12000               | 12500               | 15900                   | 15600                   |
| Min Axle Ratio          | 3.31                | 3.31                | 3.73                    | 3.73                    |
| Max Axle Ratio          | 3.31                | 3.31                | 3.73                    | 3.73                    |
| Min N/V Ratio           | 22.2                | 22.2                | 25.0                    | 25.0                    |
| Max N/V Ratio           | 22.4                | 22.4                | 25.3                    | 25.3                    |
| Emission Vehicle Class  | LDT4                | LDT4                | LDT4                    | LDT4                    |
| Drive Code              | 2-Wheel Drive, Rear | 2-Wheel Drive, Rear | Part-time 4-Wheel Drive | Part-time 4-Wheel Drive |
| Trans Type              | Semi-Automatic      | Semi-Automatic      | Semi-Automatic          | Semi-Automatic          |
| Calibration Application | 50ST                | 50ST                | 50ST                    | 50ST                    |
| Min Tire Size           | P265/70R18 - 22.4   | P265/70R18 - 22.4   | P265/70R18 - 25.3       | P265/70R18 - 25.3       |
| Max Tire Size           | P275/60R20 - 22.2   | P275/60R20 - 22.2   | P275/60R20 - 25         | P275/60R20 - 25         |
| Alt Tire 1              | P275/50R22 - 22.3   | P275/50R22 - 22.3   | P275/50R22 - 25.1       | P275/50R22 - 25.1       |
| Alt Tire 2              |                     |                     |                         |                         |
| Alt Tire 3              |                     |                     |                         |                         |
| Alt Tire 4              |                     |                     |                         |                         |
| Alt Tire 5              |                     |                     |                         |                         |
| Alt Tire 6              |                     |                     |                         |                         |
| Alt Tire 7              |                     |                     |                         |                         |
| DAW Full Tank           | 2873                | 2907                | 2942                    | 2981                    |
| DAW Empty Tank          | 2766                | 2780                | 2834                    | 2855                    |



## **SECTION 14**

### **Request for Certification**

|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------|--------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------|---------------------------------------|------------------------|-----------------------------------------------|
|                                                                                                                                                                                                                                                                                                 |               | <b>SAP Manual Payment Request</b><br>(North America) |                                                                                      |                |                                                                                                                                                       | <b>REF NO:</b> 306183                                         |                                    |                                       |                        |                                               |
| <b>NAME AND ADDRESS OF PAYEE</b><br><br>Environmental Protection Agency-MVECP<br><br>U.S. Bank - Government Lockbox 979032<br><br>1300 Pennsylvania Ave NW - Washington DC 20004-3002<br><br>The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically/ACH. |               |                                                      |                                                                                      |                |                                                                                                                                                       | Employee                                                      | Ex-Employee /<br>Board of Director | Company Code                          | Separate<br>Check      | Special Handling/<br>Instruction Key in<br>S4 |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    | Y                                     |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       | Supplier Code                                                 |                                    | Due Date<br>/ Baseline Date           | Currency               | Amount                                        |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       | GXHSA                                                         |                                    | ASAP                                  | USD                    | 258,536.00                                    |
| <b>REASON FOR DISBURSEMENT</b><br><br>CERTIFICATION FEES - EPA STANDARD ENGINE FAMILY, EXHAUST EMISSION CONTROL SYSTEM                                                                                                                                                                                                                                                           |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
| <b>Alternate Name &amp; Address</b>                                                                                                                                                                                                                                                                                                                                              |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
| <b>COMMENTS</b> (Shown on Remittance Advice/Not to include PII)                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
| 2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)                                                                                                                                                                                                                                                                                                                            |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
| GL Account                                                                                                                                                                                                                                                                                                                                                                       | Profit Center | Cost Center                                          | Internal Order                                                                       | Reference Key1 | Reference Key2                                                                                                                                        | INVOICE #                                                     | INVOICE DATE                       | AMOUNT (Bracket Credits)              | 1099 Tax Type          |                                               |
| 63044030                                                                                                                                                                                                                                                                                                                                                                         | 2000005001    | 1000017919                                           |                                                                                      |                |                                                                                                                                                       | 306183                                                        | 1/15/2026                          | 258,536.00                            | N                      |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    | -                                     |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               | TOTAL                              | 258,536.00                            |                        |                                               |
| <b>Pre-requisites for Payment :</b>                                                                                                                                                                                                                                                                                                                                              |               |                                                      | 1.                                                                                   |                | <b>Requestors or Approvers to ensure the following</b><br>- Receipt of Service<br>- Price Validation<br>- Supported by invoice or other documentation |                                                               |                                    |                                       |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      | 2.                                                                                   |                | <b>Uses of Manual Payment Requests</b>                                                                                                                |                                                               |                                    |                                       |                        |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      | 3.                                                                                   |                | <b>Corporate Approval Authorities - Method of Payment</b>                                                                                             |                                                               |                                    |                                       |                        |                                               |
| <b>TYPE OF INVOICE:</b>                                                                                                                                                                                                                                                                                                                                                          |               |                                                      | MANUAL PAYMENT REQUEST -PERMISSIBLE USES<br>(use drop down with Alt+down arrow key): |                |                                                                                                                                                       | Uses of Manual Payment Requests                               |                                    | Not in Uses of Manual Payment Request |                        |                                               |
| <b>Requestor</b>                                                                                                                                                                                                                                                                                                                                                                 |               |                                                      |                                                                                      |                |                                                                                                                                                       | <b>Operations Approval - Receipt of Service</b>               |                                    |                                       |                        |                                               |
| CDS ID                                                                                                                                                                                                                                                                                                                                                                           |               |                                                      | Date                                                                                 |                |                                                                                                                                                       | CDS ID                                                        |                                    | Sign                                  |                        | Date                                          |
| Preparer/Requestor                                                                                                                                                                                                                                                                                                                                                               |               |                                                      | TOLIVER                                                                              |                |                                                                                                                                                       | 1/15/2026                                                     |                                    | Operations Approval                   |                        | LMERRIT2                                      |
|                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        | 1/15/2026                                     |
| <b>Approvals per Corporate Approval Authorities - Method of Payment</b>                                                                                                                                                                                                                                                                                                          |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |
| <b>Payment Item is on Uses of Manual Payment Requests</b>                                                                                                                                                                                                                                                                                                                        |               |                                                      |                                                                                      |                |                                                                                                                                                       | <b>Payment Item is NOT on Uses of Manual Payment Requests</b> |                                    |                                       |                        |                                               |
| CDS ID                                                                                                                                                                                                                                                                                                                                                                           |               |                                                      | Sign                                                                                 |                |                                                                                                                                                       | Date                                                          |                                    |                                       | Date                   |                                               |
| Finance LL6+ Unlimited                                                                                                                                                                                                                                                                                                                                                           |               |                                                      | MBEDOLLA                                                                             |                |                                                                                                                                                       | 1/15/2026                                                     |                                    |                                       | Finance LL5+ Unlimited |                                               |
| It is important to protect personal data when retaining and forwarding this Payment Authorization Form and attachments, if any.<br>Every effort must be made to prevent exposure.<br><br>The space below may be used for additional local requirements                                                                                                                           |               |                                                      |                                                                                      |                |                                                                                                                                                       |                                                               |                                    |                                       |                        |                                               |

EPA\_MVECP\_v1

## US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

### General Information

**Date:** 01/07/2026

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

FMX

Manufacturer Name \*

Ford Motor Company

Contact Name \*

Tina Oliver

Contact Email Address \*

toliver@ford.com

Contact Phone \*

313 323 8938

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**

year.

Engine Family / Evaporative Family / Test Group \*

VFMXT03.57AV

### 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

Mark Pietron  
27MY 3.5L Expedition GPF

Tracking Information  
Pay.gov Tracking ID: 27UHOLDV  
Agency Tracking ID: 77261005973

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).



**Vehicle Homologation & Compliance  
Environmental & Safety Compliance**

**Allen Park Test Laboratory  
1500 Enterprise Drive, Suite 3W-200  
Allen Park, Michigan 48101-2053**

April 30, 2026

Ms Hannah Frame  
Certification Division  
Mobile Source Pollution Control  
U. S. Environmental Protection Agency  
2000 Traverwood Drive  
Ann Arbor, Michigan 48105

Dear Ms Frame:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2027 model year Gasoline powered light duty truck (LDT) contained in Ford's 50 states (Federal/CA) test group VFMXT03.57AV and evaporative emission families VFMXR0260NDV and VFMXR0200GDG. Federal Tier 3 E10 Regular Gasoline fuels were used for exhaust emission tests. Tier 3 E10 Regular Gasoline was used for evaporative emission tests.

The EPA Interim Tier 4 certification and in-use exhaust emission standards applicable to this test group are:

| <b>Certification and In-Use FTP Standards (g/mi)</b> | <b>Useful Life</b> | <b>NMOG + NOX</b> | <b>CO</b> | <b>N2O</b> | <b>PM</b> | <b>HCHO</b> | <b>CH4</b> |
|------------------------------------------------------|--------------------|-------------------|-----------|------------|-----------|-------------|------------|
| <b>Interim Tier 4 Bin 50</b>                         | 150K               | 0.050             | 1.7       | 0.010      | 0.003     | 0.004       | 0.030      |

This test group also meets the Cold NMHC Family Emission Limit (FEL) of 0.4 gm/mi as part of the compliance plan to meet the corporate fleet average cold NMHC Federal standards. In addition, the SFTP NMOG + NOX Composite and Highway standard value is 0.060 gm/mi at 150K. For CO Composite the standard value is 4.2 gm/mi at 150K. The PM standard value for US06 test is 0.006 gm/mi at 150K.

The EPA Tier 3 certification and in-use evaporative emission standards applicable to this test group are:

| <b>Tier 3</b>                | <b>Useful Life</b> | <b>Hot Soak + 2-day diurnal</b> | <b>Hot Soak + 3-day diurnal</b> | <b>Running Loss</b> | <b>ORVR</b>       | <b>Bleed Test HC Total</b> |
|------------------------------|--------------------|---------------------------------|---------------------------------|---------------------|-------------------|----------------------------|
| <b>Evaporative Standards</b> |                    |                                 |                                 |                     |                   |                            |
| VFMXR0200GDG                 | 150k               | 0.500 grams per test            | 0.500 grams per test            | 0.05 grams/mile     | 0.20 grams/gallon | 0.020 grams / test         |
| VFMXR0260NDV                 |                    |                                 |                                 |                     |                   |                            |

The Fuel Spitback standard for this test group is 1.0 gram/test.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14), including the provisions of 40 CFR Parts 85, 86 and 600, Ford requests that a Certificate of Conformity be issued for the LDT test group listed in this Application for Certification.

Please contact Mark Pietron at 313-805-7139 or mpietron@ford.com, if you have any questions regarding this submission.

Sincerely

DocuSigned by:

*Lawrence H. Merritt, Jr.*

DF6ED4749EAC49B1  
Lawrence Merritt

Manager, Emissions Certification  
Homologation, & Compliance



**Vehicle Homologation & Compliance  
Environmental & Safety Compliance**

**Allen Park Test Laboratory  
1500 Enterprise Drive, Suite 3W200  
Allen Park, Michigan 48101- 2053**

March 4, 2026

Ms. Robin U. Lang , Chief  
Emissions Compliance, Automotive Regulations and Science Division  
Air Resources Board  
4001 Iowa Ave.  
Riverside, CA 92507

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2027 model year Gasoline powered light duty truck (LDT) contained in Ford's 50 states (Federal/CA) test group VFMXT03.57AV and evaporative emission families VFMXR0260NDV and VFMXR0200GDG. Federal Tier 3 E10 Regular Gasoline fuels were used for exhaust emission tests. Tier 3 E10 Regular Gasoline was used for evaporative emission tests.

This application aligns with CARB's Manufacturers Advisory Correspondence (MAC) ECCD-2025-8 alternate pathway (1) described on page 2 as follows:

(1) An approved application for CARB certification to the vehicle and engine emission regulations that immediately preceded those covered by the waivers that were targeted by the congressional resolutions.

Ford intends submittal of this certification to facilitate CARB's review in order to ensure timely certification of Ford's vehicles as may be needed in accordance with applicable requirements. Ford is reserving its rights with regard to determining what requirements apply and which requirements can be enforced by CARB.

The CARB LEV 3 certification and in-use exhaust emission standards applicable to this test group are:

| <b>Certification and In-Use FTP Standards (g/mi)</b> | <b>Useful Life</b> | <b>NMOG + NOX</b> | <b>CO</b> | <b>PM</b> | <b>HCHO</b> |
|------------------------------------------------------|--------------------|-------------------|-----------|-----------|-------------|
| <b>LEV 3 ULEV 50</b>                                 | 150K               | 0.050             | 1.7       | 0.001     | 0.004       |

This test group also meets the SFTP NMOG + NOX Composite and Highway standard value is 0.060 gm/mi at 150K. For CO Composite the standard value is 4.2 gm/mi at 150K. The PM standard value for US06 test is 0.006 gm/mi at 150K.

The LEV3 certification and in-use evaporative emission standards applicable to this test group are:

| <b>LEV 3</b>                                 | <b>Useful Life</b> | <b>Hot Soak + 2-day diurnal</b> | <b>Hot Soak + 3-day diurnal</b> | <b>Running Loss</b> | <b>ORVR</b>       | <b>Bleed Test HC Total</b> |
|----------------------------------------------|--------------------|---------------------------------|---------------------------------|---------------------|-------------------|----------------------------|
| <b>Evaporative Standards</b><br>VFMXR0200GDG | 150k               | 0.500 grams per test            | 0.500                           | 0.05 grams/mile     | 0.20 grams/gallon | 0.020 grams /              |

|              |  |  |                   |  |  |      |
|--------------|--|--|-------------------|--|--|------|
| VFMXR0260NDV |  |  | grams per<br>test |  |  | test |
|--------------|--|--|-------------------|--|--|------|

The Fuel Spitback standard for this test group is 1.0 gram/test.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. This application has also been prepared in accordance with the California Air Resources Board, Final Regulation Order, Amendments to Sections 1960.1, 1960.5, 1961 and 1962 Title 13, California Code of Regulations (As amended August 4, 2005). Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14), including the provisions of 40 CFR Parts 85, 86 and 600, Ford requests that an Executive Order be issued for the LDT test group listed in this Application for Certification.

Please contact Mark Pietron at 313-805-7139 or mpietron@ford.com, if you have any questions regarding this submission.

Sincerely

DocuSigned by:

*Jeff Glodich*

5DAE4A8B9BF6498  
Jeffrey Glodich

Manager, Emissions Certification  
Homologation, & Compliance

Cc: R. Uyehara  
M. Desai



## **SECTION 16**

### **Confidential Information**



## **SECTION 17**

### **California ARB Requirements**



## **SECTION 17**

### **California ARB Requirements**

# VFMXT03.57AV

|                                                                                    |                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>FoMoCo</b>                                                                      | <b>Ford Motor Company</b><br><b>VEHICLE EMISSION CONTROL INFORMATION</b>           |
| <b>Conforms to regulations:</b> 2027 MY                                            |                                                                                    |
| <b>U.S. EPA:</b> Interim T4B50 LDT4<br><b>OBD:</b> CA OBD II <b>Fuel:</b> Gasoline |                                                                                    |
| <b>California:</b> ULEV50 LDT<br><b>OBD:</b> CA OBD II <b>Fuel:</b> Gasoline       |                                                                                    |
| TWC/TWC+GPF/DFI/SFI/WR-HO2S/HO2S/TC/CAC/EGR/EGRC                                   |                                                                                    |
| No adjustments needed.                                                             |                                                                                    |
| 3.5L-Group: VFMXT03.57AV     Evap: VFMR0200GDG                                     |                                                                                    |
| ▽ VW7E-9C485- <b>M M H</b>                                                         |  |

|                                                                                    |                                                                                      |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>FoMoCo</b>                                                                      | <b>Ford Motor Company</b><br><b>VEHICLE EMISSION CONTROL INFORMATION</b>             |
| <b>Conforms to regulations:</b> 2027 MY                                            |                                                                                      |
| <b>U.S. EPA:</b> Interim T4B50 LDT4<br><b>OBD:</b> CA OBD II <b>Fuel:</b> Gasoline |                                                                                      |
| <b>California:</b> ULEV50 LDT<br><b>OBD:</b> CA OBD II <b>Fuel:</b> Gasoline       |                                                                                      |
| TWC/TWC+GPF/DFI/SFI/WR-HO2S/HO2S/TC/CAC/EGR/EGRC                                   |                                                                                      |
| No adjustments needed.                                                             |                                                                                      |
| 3.5L-Group: VFMXT03.57AV     Evap: VFMR0260NDV                                     |                                                                                      |
| ▽ VW7E-9C485- <b>M Y V</b>                                                         |  |



## **SECTION 18**

### **Revisions**

18.00.00.00