Kim, Seong Hun

From: noreply@salesforce.com on behalf of California Air <mscertfees@arb.ca.gov>
Sent: Wednesday, July 15, 2026 11:25 AM
To: Kim, Seong Hun
Cc: MSCertFees@arb.ca.gov
Subject: [From: External] Adjusted MS Fee Invoice MSF251034-2
Attachments: MSF251034-2 - signed.pdf

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

Dear Seong Hun Kim,

Attached is your Final invoice addressing your request for a refund for invoice MSF251034-1. Your refund is in process will take approximately 5 to 7 weeks for processing. The payment will be issued to the manufacturer listed in your CARB Customer account.

If you have additional questions regarding the fee invoicing and payment process, please contact your assigned CARB certification staff.

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	{{!invoiceNumber}}
Invoice Date	{{*invoice_date_es_:signer1:calc(now()):format(date,"mmm dd, yyyy")}}

COMPANY INFORMATION

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

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	VVGAJ02.0A2H	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	VVGAJ02.0A2H	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	$ 0.00
2	VVGAT02.0A3C	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAT02.0A3C	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	$ 0.00
3	VVGAT02.9A5E	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAT02.9A5E	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	$ 0.00
4	VVGAJ03.0N7S	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAJ03.0N7S	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	-$ 25,154.00
5	VVGAT04.0N5D	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAT04.0N5D	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	$ 0.00
6	VVGAV02.0A3N	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	VVGAV02.0A3N	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	VVGAV02.0A7N	medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	VVGAV02.0A7N	medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	$ 0.00
8	VVGAV02.5NAG	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	VVGAV02.5NAG	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00	$ 0.00

Total Invoice (MSF251034-1) Paid	$ 301,856.00	**Total Corrected**	$ 276,702.00
		Total Due	-$ 25,154.00

Notes
Changed fee type for VVGAJ03.0N75 from Base to Partial Carry-over.

I, {{Sig_es_:signer1:signature}} , attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

VOLKSWAGEN

GROUP OF AMERICA

Ms. Robin Lang, Chief
Emissions Certification and Compliance Division
California Air Resources Board
9480 Telstar Avenue, Suite 4
El Monte, CA 91731

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

July 15, 2026 Date

Subject: 2027 Model Year Partial Carryover Application Request

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

Dear Ms. Lang,

VWGoA is requesting the Air Resources Board approve the following Partial Carryover Application for VVGAJ03.0N7S/SQ5,A6,S5/VVGAR0171ADF-VVGAR0171NDG based on Partial Carryover data from TVGAJ03.0N7S/SQ5,A6,S5/TVGAR0171ADF-TVGAR0171NDG and Executive Order number A-413-0374-1. By signing this letter, *VWGoA* is certifying that this model year's application package:

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

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

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

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

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

If you have any questions regarding this request, please contact *Sunny Kim* at (248) 931-4347 or by email at Sunny.Kim@vw.com.

VOLKSWAGEN

GROUP OF AMERICA

Sincerely,

D'Ambrosi Anthony VWPKI 5406C07D40F4331C

Digitally signed by D'Ambrosi Anthony VWPKI 5406C07D40F4331C
Date: 2026.07.15 10:18:56 -04'00'

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

Enclosure(s)

Running Change / Field Fix Log

Model Year: 2026

Test Group: TVGAJ03.0N7S

Models: A6 Sedan, S5 Sport Sedan, SQ5, SQ5 Sportback

Evaporative Families: TVGAR0171NDG, TVGAR0171ADF

RC / FF Number	Description of Change / Reason	Date
RC_TV3.0N7S_01_25	Improved ACM software has been developed and will be available for production.	7/28/2025
RC_TV3.0N7S_02_25	Improved VTCM software has been developed and will be available for production	8/21/2025
RC_S2.0AxH_3.0N7S_ T3.0N7S_096_25	Improved VTMC module software has been developed and will be available for production.	9/2/2026
RC_TV3.0N7S_03_25	Improved application sub server power train OBD1 software has been developed and will be available for production and service.	9/11/2025
RC_TV3.0N7S_04_25	This change cleans up the diagnostic software to improve error handling in the PCM.	9/4/2025
RC_TV3.0N7S_05_25	Improved TCM software has been developed and will be available for production.	9/15/2025
RC_S2.0AxH_S-T3.0N7S _105_25	Improved Airbag Control Module (ACM) software has been developed and will be available for production.	9/17/2025
RC_S2.0AxH_S-T3.0N7S _113_25	Improved TCM software has been developed and will be available for production and service.	10/14/2025
RC_TV3.0N7S_06_25	Addition of the SQ5 and S5 models to the existing TVGAJ03.0N7S Test Group and the addition of the TVGAR0171ADF Evaporative Family.	10/16/2025
RC_TV3.0N7S_07_25	Improved TCM software has been developed and will be available for production.	11/10/2025
RC_TV3.0N7S_08_25	Improved PCM software has been developed and will be available for production.	11/13/2025
RC_TV3.0N7S_09_25	Improved ECM software has been developed and will be available for production.	11/26/2025
RC_TV3.0N7S_10_25	Improved ECM software has been developed and will be available for production.	12/2/2025
RC_TV3.0N7S_11_25	The missing Powertrain Control Module (PCM) information is added to the application.	12/8/2025
RC_TV3.0N7S_12_25	Improved PCM software has been developed and will be available for service and production.	12/18/2025
RC_TV3.0N7S_13_26	Improved BSCM software has been developed and will be available for production and service	1/15/2026
RC_TV3.0N7S_14_26	Improved steering column control module software has been developed and will be available for production and service.	1/26/2026
RC_TV3.0N7S_15_26	Alternative crankcase ventilation valve (assembly) and intake air pipe with new part number will be available for production.	2/12/2026
RC_T2.0A2H_3.0N7S _030_26	The ACM software with new part number will be available for production.	3/4/2026
RC_T2.0A2H_3.0N7S _033_26	Improved GWM software has been developed and will be available for production.	3/10/2026
RC_TV3.0N7S_16_26	Improved TCM software has been developed and will be available for production.	3/10/2026
RC_TV3.0N7S_17_26	Improved PCM software has been developed and will be available for production.	3/17/2026
RC_TV3.0N7S_18_26	Improved GWM software has been developed and will be available for production.	3/17/2026
RC_TV3.0N7S_19_26	Improved Gateway (GWM) control module software has been developed and will be available for production.	3/30/2026

RC / FF Number	Description of Change / Reason	Date
RC_TV3.0N7S_20_26	Improved Gateway (GWM) control module software has been developed and will be available for production.	3/31/2026
RC_TA2.0A2H-3.0N7S_050_26	Improved PCM software has been developed and will be available for production.	5/22/2026
RC_TV3.0N7S_21_26	Improved ECM software has been developed and will be available for production and service.	6/10/2026

Prefix:
RC = Running Change
RF = Running Change / Field Fix
FF = Field Fix

Audi AG, a member of the Volkswagen Group

Application for Emissions Certification

2027 **Model Year**

Durability Group: VVGAGPGNNN7S
Evap. Family: VVGAR0171ADF / VVGAR0171NDG

Test Group: VVGAJ03.0N7S

Certificate Number: **VVGAJ03.0N7S-XXX, -XXX**

Durability Group Description: **Four Stroke, Otto Cycle, Gasoline Fueled, Direct Fuel Injection, Catalyst Code: JM842 (PRE), JM842 (MAIN)**

Test Group Description: **3.0l V6 TFSI, DFI/TC/2CAC/TWC/WR-HO2S/HO2S LDV/LDT2**

Applicable Exhaust Standards: 50 State

Federal: Tier 4 Interim Bin 70
California: LEV 4 ULEV 70

Applicable Evaporative Standards: 50 State

VVGAR0171ADF	VVGAR0171NDG
Federal: Tier 3 FEL: 375 mg	Federal: Tier 3 FEL: 325 mg
California: LEV 4 FEL: 375 mg	California: LEV 4 FEL: 325 mg

Carlines Covered: SQ5, SQ5 Sportback, A6 Sedan, S5 Sport Sedan

Vehicles Tested:

VID	Config.	Test Type / #	Test Type / #
TN7S-SQ5-532	0	FTP / TVGA10092401	HFET / TVGA10092384
		US06 / TVGA10092383	SC03 / TVGA10092385
		20°F FTP / TVGA10092382	50°F FTP / TVGA10092381
SA3H-Q5-787	0	ORVR / SVGA10089088	Running Loss / SVGA10089086
		2 Day / SVGA10089085	3 Day / SVGA10089087
		BETP / SVGA10089089	
TN7S-A7-771	0	ORVR / TVGA10091009	Running Loss / TVGA10091011
		2 Day / TVGA10091008	3 Day / TVGA10091010
SA7H-B10-793	0	BETP / SVGA10089038	

Issue Date: 07/15/2026

Questions, Contact:
EEO Office, Auburn Hills, Michigan

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Section 02	Durability Group Description
Section 03	Evaporative/Refueling Family Description
Section 04	Durability Procedure Description
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Section 08	Emission Testing Waiver Statements
Section 09	OBD System Description
Section 10	Description of Alternate-fueled Vehicles
Section 11	AECD Description
Section 12	Description of vehicles covered by certificate and test parameters
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Section 15	Other Information
Section 16	Confidential Information
Section 17	California ARB Information

1. Correspondence and Communication

Please refer to the Common Section

2. Durability Group Description

Durability Source Basics	
Durability Procedure	VW / Audi ADP
Durability Group Name	VVGAGPGNNN7S
Source of Durability Data	SN7S-DDV
Relation Factor BAT VWADP / BAT SRC	2.22
Engine Type	Piston
Combustion Method	Otto cycle, four stroke
Fuel Used	Gasoline
Basic Fuel Metering System	Direct Injection
Displacement [l]	3.0

Catalyst / After treatment device specifics		
	Durability Group Statistics	**Durability Data Vehicle**
Catalyst Construction		Monolith
Precious Metal Composition TWC		Palladium, Rhodium
PTOX TWC		n.a.
NAC:1 SCRC: 2		n.a.
Total Catalyst Volume [l]		3.46
Total Precious Metal Loading [g]		10.24
Precious Metal Load Rate PM [g] / CV [l]		2.96
Cat. Grouping Statistic	3.4	3.4
Durability Group Limit (25% or 0.2 g/l)	2.6	-
Test Group Covered		VVGAJ03.0N7S

3. Evaporative / Refueling Family Description

		SQ5	C/O - BETP	A6 Sedan, S5	C/O - BETP
Evaporative / Refueling Family Name		VVGAR0171ADF	SA3H-Q5-787	VVGAR0171NDG	SA7H-B10-793
Vapor storage device	Canister	Yes	Yes	Yes	Yes
	Other	-	-	-	-
Basic canister design	Working Capacity (g)	171	171	171	171
	Bed Volume (cm^3)	2620	2620	2620	2620
	Number, config.	1	1	1	1
	Geometry	other	other	other	other
	Construction	5-chamber	5-chamber	5-chamber	5-chamber
	Bleeding trap	Yes	Yes	Yes	Yes
	Bleed trap Working Capacity (g)	4-6	4-6	4-6	4-6
	Material	plastic	plastic	plastic	plastic
Fuel System	DFI	DFI	DFI	DFI	DFI
Type of refueling system	Integrated	Yes	Yes	Yes	Yes
	Non-integrated	-	-	-	-
	Other	-	-	-	-
Fill pipe seal mechanism	Liquid seal	Yes	Yes	Yes	Yes
	Mechanical Seal	-	-	-	-
	Other	-	-	-	-
Method of controlling vapor flow to the engine	Vacuum	Yes	Yes	Yes	-
	Purge valve	Yes	Yes	Yes	Yes
	Other	-	-	-	-
Purge control system	Valve type	Duty Cycle	Duty Cycle	Duty Cycle	Duty Cycle
	Control	ECM	ECM	ECM	ECM
Vapor hose material	4 / multi-layer hose	Yes	Yes	Yes	Yes
	Stainless Steel	-	-	-	-
	Alloy	-	-	-	-
Fuel tank material	Metal	-	-	-	-
	Plastic	Yes	Yes	Yes	Yes
	Other	-		-	
Test groups combined with this Evap. family		VVGAJ03.0N7S		VVGAJ03.0N7S	

4. Durability Procedure Description

Please refer to the Common Section

5.0 Test Group Description

Evap. Family:	VVGAR0171ADF VVGAR0171NDG
Test Group Name:	VVGAJ03.0N7S
Certificate Number:	VVGAJ03.0N7S-XXX, -XXX
Engine displacements covered:	3.0 liters
Arrangement and number of cylinders:	V6
Vehicle class(es) covered:	LDV, LDT2
Federal Emissions Standards Class:	Tier 4 Interim BIN 70
California Emissions Standards Class:	LEV 4 ULEV 70

5.1 Test Group Emission Standards

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

6. Test Vehicle Description

Certificate Number: VVGAJ03.0N7S-XXX
Models: SQ5, SQ5 Sportback
Test Group: VVGAJ03.0N7S
Evaporative/Refueling Family: VVGAR0171ADF

VID	Config.	Vehicle Type	Tests Performed
TN7S-SQ5-532	0	EDV E10	FTP, HWY, US06, SC03, 20°F FTP, 50 °F FTP
		EDV E0 / GHG	FTP, HWY, US06, SC03
	1	FEDV	FTP, HWY, US06, SC03, 20°F FTP
SA3H-Q5-787	0	Evap	3Day Evap, 2Day Evap, Running Loss, ORVR, BETP

Certificate Number: VVGAJ03.0N7S-XXX
Models: A6 Sedan, S5 Sport Sedan
Test Group: VVGAJ03.0N7S
Evaporative/Refueling Family: VVGAR0171NDG

VID	Config.	Vehicle Type	Tests Performed
TN7S-A7-771	0	Evap	3-Day Evap, 2-Day Evap, Running Loss, ORVR
SA7H-B10-793	0	Evap	BETP
TN7S-A7-771 US (MY27 Software)	0	FEDV	FTP, HWY, US06, SC03, 20°F FTP
TN7S-A7-771 CND (MY27 Software)	1	FEDV	FTP, HWY, US06, SC03, 20°F FTP
TN7S-S5-314 US (MY27 Software)	0	FEDV	FTP, HWY, US06, SC03, 20°F FTP
TN7S-S5-314 CND (MY27 Software)	1	FEDV	FTP, HWY, US06, SC03, 20°F FTP

7. Test Results

Please refer to the Certification Summary Information Report.

Certification Summary Information Report

Manufacturer	Volkswagen Group of America, Inc.	**Manufacturer Code**	VGA
Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	07/15/2026 11:21:32 AM
Model Year	2027		

Test Group Information

CSI Type	New	**Running Change Reference Number**	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	--
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	--
Fuel Cell Indicator	No	**EPA Vehicle Class**	LDT2, LDV
Federal Clean Fuel Vehicle	No	**Federal Clean Fuel Vehicle Standard**	--
Federal Clean Fuel Vehicle ILEV	No	**California Partial Zero Emissions Vehicle Indicator**	--
Durability Group Name	VVGAGPGNNN7S	**Durability Group Equivalency Factor**	2.2
Reduced Fee Test Group	No	**Certification Region Code(s)**	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	**CAP2000 Conditional Certificate?**	N/A
Independent Commercial Importer?	--	**Alternative Fuel Converter Certificate?**	--
SFTP Federal Composite Compliance Identifier	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VVGAT02.9A5E
Test Group OBD Compliance Level	Full - no deficiencies	**Number of Test Group OBD Deficiencies**	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Evaporative/Refueling Family Information

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

Leak Family Details

Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	**Applicability of Evaporative Canister Bleed Test**	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	**Applicability of CARB Fuel Only (Rig) Test**	--
CARB Fuel Only (Rig) Test Comments	--		

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

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Volkswagen Group of America, Inc.	2 - Audi	335 - SQ5	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Volkswagen Group of America, Inc.	2 - Audi	337 - SQ5 Sportback	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Volkswagen Group of America, Inc.	2 - Audi	335 - SQ5	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Volkswagen Group of America, Inc.	2 - Audi	337 - SQ5 Sportback	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Engine Description

Hybrid Type	--	**Hybrid Description**	--
Engine Type	4-Stroke Spark Ignition	**Mfr Engine Description**	--
Engine Block Arrangement	V-shaped engine	**Mfr Engine Block Arrangement Description**	--
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	0W20 VW50800
Number of Cylinders/Rotors	6	**Mechanically Variable Compression Ratio Indicator**	N

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Engine Configuration Number 1

Engine Displacement (liters)	3.0	**Engine Rated Horsepower**	362
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Turbocharged	**Number of Air Aspiration Devices**	1
Air Aspiration Device Configuration	Single	**Charge Air Cooler Type**	Liquid
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Controlling the inlet and outlet camshaft position. Under all conditions a stoichiometric air fuel ratio for best catalyst efficiency is ensured.		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	Two stage inlet valve lift for emission reduction (GHG). Inlet valve lift switchable between large and small valve lift for GHG reduction.		
Number of Knock Sensors	2	**Number of Air/Fuel Sensors**	2
Air/Fuel Sensor # 1 Type	Heated oxygen	**Air/Fuel Sensor # 1 Description**	--
Air/Fuel Sensor # 2 Type	Heated oxygen	**Air/Fuel Sensor # 2 Description**	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	**Cooled Exhaust Gas Recirculation**	No
EGR Type	--	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	Applies to DWVA var: 0		

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171ADF

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	TVGA10092401	TVGA10092383	TVGA10092385	TVGA10092382	TVGA10092384	16.2	15.0	23.5	21.9	--

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Emission Data Vehicle Information

Vehicle ID / Configuration	SA3H-Q5-787 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	SVGAT02.0A3H	**Original Evaporative/Refueling Family**	SVGAR0171ADF
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Audi	**Represented Test Vehicle Model**	Q5 TFSI quattro

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1.0067
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	DXCA	**Rated Horsepower**	268
Displacement (liters)	2		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	1	**Air Aspiration Device Configuration**	Single
Charge Air Cooler Type	Air	**Drive Mode While Testing**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4464	**Equivalent Test Weight (pounds)**	4750
GVWR (lbs)	5500	**N/V Ratio**	26.4
Axle Ratio	5.3		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171ADF

Dynamometer Coefficients:

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

Emission Control Device Comments DFI/AIR/TC/CAC/TWC(2)/GPF/WR-HO2S/HO2S

Manufacturer Test Vehicle Comments MY25 Audi Q5 TFSI quattro EVAP EDV, ETW 4750

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

Test Results

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

Manufacturer Test Comments MY25 Audi Q5 TFSI quattro Evap 2DD 4k

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

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

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

Test Results

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

Manufacturer Test Comments MY25 Audi Q5 TFSI quattro Evap 3DD 4k

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

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

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

Test Results

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

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

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

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**SVGA10089088**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	SVGA10089083	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/11/2024	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	5312	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0123	--

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

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.012	0.000	0.01	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.012	0.000	0.01	0.20	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**SVGA10089089**	**Test Procedure**	**65 - Evap Canister Bleed Test**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/03/2024	**Fuel**	N/A
Fuel Batch ID	WB0024	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Volkswagen AG WOB2		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4000	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0103	--

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

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Emission Data Vehicle Information

Vehicle ID / Configuration	TN7S-SQ5-532 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	TVGAJ03.0N7S	**Original Evaporative/Refueling Family**	TVGAR0171ADF
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Audi	**Represented Test Vehicle Model**	SQ5

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	TVGAR0171ADF-001

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	No
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	0.9957
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	DWVA	**Rated Horsepower**	362
Displacement (liters)	3		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4663	**Equivalent Test Weight (pounds)**	5000
GVWR (lbs)	5699	**N/V Ratio**	26.6
Axle Ratio	5.3		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	39.62	0.2501	0.02602	-6.05	0.2187	0.02402	15.6
Cold CO	43.59	0.2751	0.02862	-11.63	0.0249	0.02734	N/A
US06	39.62	0.2501	0.02602	-6.05	0.2187	0.02402	N/A

Emission Control Device Comments C | Combustion

Manufacturer Test Vehicle Comments EDV Tested in S-Mode (ETW = 5000lbs)

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**TVGA10092381**	**Test Procedure**	**52 - Fed. fuel 50 F exh.**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/23/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5166	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171ADF

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	471.1512276	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.5955	--
FE BAG 1 (Bag 1 Fuel Economy)	18.447888	18.447888
CH4 BAG 1 (Bag 1 Methane)	0.0082	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0456	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	515.8919564	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1142	--
FE BAG 2 (Bag 2 Fuel Economy)	16.8809424	16.8809424
CH4 BAG 2 (Bag 2 Methane)	0	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0003	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	398.378784	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.3894	--
FE BAG 3 (Bag 3 Fuel Economy)	21.8344401	21.8344401
CH4 BAG 3 (Bag 3 Methane)	0	--
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0006	--
METHANE (CH4 - Methane)	0.001705	--
CO (Carbon Monoxide)	0.289479	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0793199	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4303994	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2539476	--
MFR FE (Manufacturer Fuel Economy)	18.4	18.4
NOX (Nitrogen Oxide)	0.0109601	--
HC-NM (Non-methane Hydrocarbon)	0.0088798	--
NMOG (Non-methane organic gases)	0.0098	--
HC-TOTAL (Total Hydrocarbon)	0.0103334	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	474	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	474.3572018	--

Manufacturer Test Comments 50FTP EDV Tested in Sport-Mode; SQ5; EDV ETW: 5000lbs; RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171ADF

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-IV ULEV70	CO	0.29	--	--	--	--	--	0.3	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0098	--	1.0991	--	--	--	0.010	99.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0208	--	--	--	--	--	0.021	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0110	--	--	--	--	--	0.011	99.999	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**TVGA10092382**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/18/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5087	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171ADF

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	512.1965807	--
CO BAG 1 (Bag 1 Carbon Monoxide)	1.0529	--
FE BAG 1 (Bag 1 Fuel Economy)	16.9406869	16.9406869
CH4 BAG 1 (Bag 1 Methane)	0.0211	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1227	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	522.04818	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1343	--
FE BAG 2 (Bag 2 Fuel Economy)	16.680933	16.680933
CH4 BAG 2 (Bag 2 Methane)	0	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0009	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	405.2048166	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.2443	--
FE BAG 3 (Bag 3 Fuel Economy)	21.4792527	21.4792527
CH4 BAG 3 (Bag 3 Methane)	0.0002	--
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0003	--
METHANE (CH4 - Methane)	0.0044233	--
CO (Carbon Monoxide)	0.3547068	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0291213	--
DT-EER (Drive Trace Energy Economy Rating)	-0.834283	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2700041	--
MFR FE (Manufacturer Fuel Economy)	17.8	17.8
NOX (Nitrogen Oxide)	0.0171319	--
HC-NM (Non-methane Hydrocarbon)	0.0235443	--
NMOG (Non-methane organic gases)	0.0259	--
HC-TOTAL (Total Hydrocarbon)	0.027402	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	489	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	487.8964519	--

Manufacturer Test Comments COLDCO (EDV) Tested in Sport-Mode; SQ5 EDV ETW:5000lbs; RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171ADF

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 70	CO	0.35	--	--	--	0.0200	--	0.4	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.02	--	--	--	0.0004	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV70	CO	0.35	--	--	--	0.02	--	0.4	10.0	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**TVGA10092401**	**Test Procedure**	**21 - Federal fuel 2-day exhaust (w/can load)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/31/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0025	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5409	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171ADF

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	438.7707435	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.3966	--
FE BAG 1 (Bag 1 Fuel Economy)	19.7463528	19.7463528
CH4 BAG 1 (Bag 1 Methane)	0.0057	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0526	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	490.4834724	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.062	--
FE BAG 2 (Bag 2 Fuel Economy)	17.6925218	17.6925218
CH4 BAG 2 (Bag 2 Methane)	0	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	384.8770316	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.1566	--
FE BAG 3 (Bag 3 Fuel Economy)	22.5372531	22.5372531
CH4 BAG 3 (Bag 3 Methane)	0	--
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--
METHANE (CH4 - Methane)	0.0011764	--
CO (Carbon Monoxide)	0.1573935	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1309618	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1174022	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6238112	--
MFR FE (Manufacturer Fuel Economy)	19.2	19.2
NOX (Nitrogen Oxide)	0.015012	--
N2O (Nitrous Oxide)	0.0002259	--
HC-NM (Non-methane Hydrocarbon)	0.0099683	--
NMOG (Non-methane organic gases)	0.01	--
PM (Particulate Matter)	0.0003952	--
HC-TOTAL (Total Hydrocarbon)	0.0110704	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	451	451

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	450.7532752	--

Manufacturer Test Comments Test performed in S Mode; FTP Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171ADF

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 70	CREE	451	--	--	--	0.0800	--	451	--	--
Fed	120,000 miles	Federal Tier 3 Bin 70	METHANE	0.0012	--	--	--	0.0003	--	0.002	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0002	--	--	--	0.0000	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.16	--	--	--	0.0700	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.24	--	--	--	--	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0100	--	1.0991	--	0.0005	--	0.010	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0250	--	--	--	--	--	0.026	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0212	--	--	--	--	--	0.021	0.090	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0150	--	--	--	0.0000	--	0.015	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0004	--	--	--	0.0000	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.16	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0100	--	1.0991	--	0.0005	--	0.010	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0250	--	--	--	--	--	0.026	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0150	--	--	--	0.0000	--	0.015	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0004	--	--	--	0	--	0.000	0.003	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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**TVGA10092384**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/15/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4956	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.0735904	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.786866	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0176852	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.459139	--
MFR FE (Manufacturer Fuel Economy)	32.1	32.1
NOX (Nitrogen Oxide)	0.0020408	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0001205	--
NMOG (Non-methane organic gases)	0.0001	--
PM (Particulate Matter)	0.0001941	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	271	271

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	270.8908976	--

Manufacturer Test Comments Test performed in S Mode; VeCeD: HWY Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171ADF

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 70	CREE	271	--	--	--	0.0800	--	271	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0001	--	1.0300	--	0.0005	--	0.001	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0021	--	--	--	--	--	0.003	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0020	--	--	--	0.0000	--	0.002	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0001	--	1.0300	--	0.0005	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.00214	--	--	--	--	--	0.003	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.00204	--	--	--	0.0000	--	0.0020	99.9990	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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**TVGA10092383**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/15/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4989	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171ADF

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	630.4239799	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.2918	--
FE BAG 1 (Bag 1 Fuel Economy)	13.8071895	13.8071895
CH4 BAG 1 (Bag 1 Methane)	0.0052	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0206	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	347.1646299	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1542	--
FE BAG 2 (Bag 2 Fuel Economy)	25.0732669	25.0732669
CH4 BAG 2 (Bag 2 Methane)	0.0022	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0132	--
METHANE (CH4 - Methane)	0.0028737	--
CO (Carbon Monoxide)	0.1847728	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7092161	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1260245	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.224903	--
MFR FE (Manufacturer Fuel Economy)	21.2	21.2
NOX (Nitrogen Oxide)	0.0087378	--
N2O (Nitrous Oxide)	0.0001421	--
HC-NM (Non-methane Hydrocarbon)	0.0144398	--
NMOG (Non-methane organic gases)	0.0149	--
PM (Particulate Matter)	0.00132	--
HC-TOTAL (Total Hydrocarbon)	0.0172658	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	410	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	410.0650355	--

Manufacturer Test Comments Test performed in S Mode; VeCeD: US06 Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171ADF

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.18	--	--	--	0.0700	--	0.2	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0149	--	1.0300	--	0.0005	--	0.015	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0087	--	--	--	0.0000	--	0.009	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0013	--	--	--	0.0000	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.18	--	--	--	0.07	--	0.2	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0149	--	1.0300	--	0.0005	--	0.015	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0236	--	--	--	--	--	0.024	0.084	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0087	--	--	--	0	--	0.009	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0013	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Test #	**TVGA10092385**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/15/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5015	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.000863	--
CO (Carbon Monoxide)	0.1734619	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4444312	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2393964	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.4335003	--
MFR FE (Manufacturer Fuel Economy)	19.1	19.1
NOX (Nitrogen Oxide)	0.0137142	--
N2O (Nitrous Oxide)	0.0000458	--
HC-NM (Non-methane Hydrocarbon)	0.0008243	--
NMOG (Non-methane organic gases)	0.0008	--
PM (Particulate Matter)	0.0004392	--
HC-TOTAL (Total Hydrocarbon)	0.0016729	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	456	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	456.4749759	--

Manufacturer Test Comments Test performed in S Mode; VeCeD: SC03 Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171ADF

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.17	--	--	--	0.0700	--	0.2	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0008	--	1.0300	--	0.0005	--	0.001	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0137	--	--	--	0.0000	--	0.014	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.17	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0008	--	1.0300	--	0.0005	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0145	--	--	--	--	--	0.015	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0137	--	--	--	0	--	0.014	99.999	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Fuel Properties

Fuel Batch ID	**NK0022**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	07/05/2024
Fuel Batch Calibration Effective Date	08/06/2024	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.754
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17960
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	**Weight Fraction CO2**	--

Fuel Batch ID	**NK0022**	**Fuel Calibration Number**	**999**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	07/05/2024
Fuel Batch Calibration Effective Date	08/06/2024	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.754
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.775	**Fuel Carbon Mass Fraction (E10)**	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	**Weight Fraction CO2**	--

Fuel Batch ID	**NK0025**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	06/19/2025
Fuel Batch Calibration Effective Date	07/04/2025	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.754
Fuel Ethanol Volume Percent (%)	9.6	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.81	**Fuel Carbon Mass Fraction (E10)**	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	**Weight Fraction CO2**	--

Fuel Batch ID	**WB0024**	**Fuel Calibration Number**	**1**
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	01/23/2024

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF
Fuel Batch Calibration Effective Date	01/24/2024	**Fuel Batch Calibration Ineffective Date**	--
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 (%)	9.6	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17932
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
Fuel	Gasoline	**Test Procedure**	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.0800	999
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
Fuel	Gasoline	**Test Procedure**	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.0800	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0003	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010
150,000 miles	CO	--	--	--	--	--	--	0.0700	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0005	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.090
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
Fuel	Gasoline	**Test Procedure**	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	9.6
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.084
150,000 miles	NOX	--	--	--	--	--	--	0	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
Fuel	Gasoline	**Test Procedure**	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.0700	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
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	--	--	--	--	--	--	0.0200	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0004	0.3

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
Fuel	Gasoline	**Test Procedure**	HWFE

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	NMOG	--	--	1.0300	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.9990

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
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	--	--	--	--	--	--	0.02	10.0

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
Fuel	Gasoline	**Test Procedure**	Fed. fuel 50 F exh.

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	1.7
4,000 miles	HCHO	--	--	--	--	--	--	--	0.016
4,000 miles	NMOG	--	--	1.0991	--	--	--	--	99.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.140
4,000 miles	NOX	--	--	--	--	--	--	--	99.999

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF
Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
Fuel	Gasoline	**Test Procedure**	SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0	99.999

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
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	--	--	--	--	--	--	0.07	1.7
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
Fuel	Gasoline	**Test Procedure**	SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.0700	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.375	0.0751

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.375	0.0751

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.375	0.0313

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--

Evaporative/Refueling Family	VVGAR0171ADF	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.375	0.0313

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171ADF

Glossary

Useful Life

4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		

Emission Name

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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF
ACT-DISTANCE	Actual Distance Driven (miles)	WATT-HRS BAG 3	Bag 3 Watt Hours
AS-VOLT	Average System Voltage	WATT-HRS BAG 4	Bag 4 Watt Hours
CO2 BAG 1	Bag 1 Carbon Dioxide	WATT-HRS	Watt Hours
CO2 BAG 2	Bag 2 Carbon Dioxide	HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon
CO2 BAG 3	Bag 3 Carbon Dioxide	HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon
CO2 BAG 4	Bag 4 Carbon Dioxide	HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	N2O BAG 1	Bag 1 Nitrous Oxide
DT-IWRR	Drive Trace Inertia Work Ratio Rating	N2O BAG 2	Bag 2 Nitrous Oxide
DT-ASCR	Drive Trace Absolute Speed Change Rating	N2O BAG 3	Bag 3 Nitrous Oxide
DT-EER	Drive Trace Energy Economy Rating	N2O BAG 4	Bag 4 Nitrous Oxide
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF
L2ULEV340	California LEV-II ULEV340	L4SULEV85	California LEV-IV SULEV85
L2LEV630	California LEV-II LEV630	L4ULEV125	California LEV-IV ULEV125
L2ULEV570	California LEV-II ULEV570	L4ULEV200	California LEV-IV ULEV200
L3LEV160	California LEV-III LEV160	L4ULEV250	California LEV-IV ULEV250
L3ULEV125	California LEV-III ULEV125	L4ULEV270	California LEV-IV ULEV270
L3ULEV70	California LEV-III ULEV70	L4ULEV40	California LEV-IV ULEV40
L3ULEV50	California LEV-III ULEV50	L4ULEV400	California LEV-IV ULEV400
L3SULEV30	California LEV-III SULEV30	L4ULEV50	California LEV-IV ULEV50
L3SULEV20	California LEV-III SULEV20	L4ULEV60	California LEV-IV ULEV60
L3LEV395	California LEV-III LEV395	L4ULEV70	California LEV-IV ULEV70
L3ULEV340	California LEV-III ULEV340	T4B170	Federal Tier 4 MDV Bin 170
L3ULEV250	California LEV-III ULEV250	T4B150	Federal Tier 4 MDV Bin 150
L3ULEV200	California LEV-III ULEV200	T4B125	Federal Tier 4 MDV Bin 125
L3SULEV170	California LEV-III SULEV170	T4B100	Federal Tier 4 MDV Bin 100
L3SULEV150	California LEV-III SULEV150	T4B85	Federal Tier 4 MDV Bin 85
L3LEV630	California LEV-III LEV630	T4B75	Federal Tier 4 MDV Bin 75
L3ULEV570	California LEV-III ULEV570	T4B70	Federal Tier 4 Bin 70
L3ULEV400	California LEV-III ULEV400	T4B65	Federal Tier 4 Bin 65
L3ULEV270	California LEV-III ULEV270	T4B60	Federal Tier 4 Bin 60
L3SULEV230	California LEV-III SULEV230	T4B55	Federal Tier 4 Bin 55
L3SULEV200	California LEV-III SULEV200	T4B50	Federal Tier 4 Bin 50
T3B160	Federal Tier 3 Bin 160	T4B45	Federal Tier 4 Bin 45
T3B125	Federal Tier 3 Bin 125	T4B40	Federal Tier 4 Bin 40
T3B110	Federal Tier 3 Transitional Bin 110	T4B35	Federal Tier 4 Bin 35
T3B85	Federal Tier 3 Transitional Bin 85	T4B30	Federal Tier 4 Bin 30
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	T4B25	Federal Tier 4 Bin 25
T3B70	Federal Tier 3 Bin 70	T4B20	Federal Tier 4 Bin 20
T3B50	Federal Tier 3 Bin 50	T4B15	Federal Tier 4 Bin 15
T3B30	Federal Tier 3 Bin 30	T4B10	Federal Tier 4 Bin 10
T3B20	Federal Tier 3 Bin 20	T4B5	Federal Tier 4 Bin 5
T3B0	Federal Tier 3 Bin 0	T4B0	Federal Tier 4 Bin 0
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395		

Transmission Type Code			
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)

Drive System Code			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171ADF
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		

Additional Terms and Acronyms

AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

Certification Summary Information Report

Manufacturer	Volkswagen Group of America, Inc.	**Manufacturer Code**	VGA
Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	07/15/2026 11:21:32 AM
Model Year	2027		

Test Group Information

CSI Type	New	**Running Change Reference Number**	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	--
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	--
Fuel Cell Indicator	No	**EPA Vehicle Class**	LDT2, LDV
Federal Clean Fuel Vehicle	No	**Federal Clean Fuel Vehicle Standard**	--
Federal Clean Fuel Vehicle ILEV	No	**California Partial Zero Emissions Vehicle Indicator**	--
Durability Group Name	VVGAGPGNNN7S	**Durability Group Equivalency Factor**	2.2
Reduced Fee Test Group	No	**Certification Region Code(s)**	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	**CAP2000 Conditional Certificate?**	N/A
Independent Commercial Importer?	--	**Alternative Fuel Converter Certificate?**	--
SFTP Federal Composite Compliance Identifier	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VVGAT02.9A5E
Test Group OBD Compliance Level	Full - no deficiencies	**Number of Test Group OBD Deficiencies**	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Evaporative/Refueling Family Information

Evaporative Summary Information Type	New	**Submission/Correction Date**	07/14/2026 10:45:41 AM
Integrated ORVR?	Yes	**Fuel(s)**	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	**Fuel Tank Material Description**	HDPE
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	**Air Intake System Vapor Storage Device Description**	--
Fuel System Vapor Storage Canister?	Yes	**Other Vapor Storage**	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	171	**Number of Primary Canisters**	1
Number of Bleed Canisters	2	**Bleed Canister Total Working Capacity (grams)**	6
Mfr Evaporative/Refueling Family Comments	Audi C9, B10S LEV4 Evap FEL 325 BETP Bleeding Canister equipped (2 Honeycombs)		

Leak Family Details

Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	**Applicability of Evaporative Canister Bleed Test**	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	**Applicability of CARB Fuel Only (Rig) Test**	--
CARB Fuel Only (Rig) Test Comments	--		

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VVGAR0171NDG-001	50 State	0.02	--

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Volkswagen Group of America, Inc.	2 - Audi	47 - S5 Sport Sedan	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Volkswagen Group of America, Inc.	2 - Audi	501 - A6 Sedan	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Volkswagen Group of America, Inc.	2 - Audi	47 - S5 Sport Sedan	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Volkswagen Group of America, Inc.	2 - Audi	501 - A6 Sedan	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Engine Description

Hybrid Type	--	**Hybrid Description**	--
Engine Type	4-Stroke Spark Ignition	**Mfr Engine Description**	--
Engine Block Arrangement	V-shaped engine	**Mfr Engine Block Arrangement Description**	--
Camless Valvetrain Indicator	No	**Oil Viscosity/Classification**	0W20 VW50800
Number of Cylinders/Rotors	6	**Mechanically Variable Compression Ratio Indicator**	N

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Engine Configuration Number 1

Engine Displacement (liters)	3.0	**Engine Rated Horsepower**	362
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Turbocharged	**Number of Air Aspiration Devices**	1
Air Aspiration Device Configuration	Single	**Charge Air Cooler Type**	Liquid
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Controlling the inlet and outlet camshaft position. Under all conditions a stoichiometric air fuel ratio for best catalyst efficiency is ensured.		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	Two stage inlet valve lift for emission reduction (GHG). Inlet valve lift switchable between large and small valve lift for GHG reduction.		
Number of Knock Sensors	2	**Number of Air/Fuel Sensors**	2
Air/Fuel Sensor # 1 Type	Heated oxygen	**Air/Fuel Sensor # 1 Description**	--
Air/Fuel Sensor # 2 Type	Heated oxygen	**Air/Fuel Sensor # 2 Description**	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	**Cooled Exhaust Gas Recirculation**	No
EGR Type	--	**Exhaust Gas Recirculation Description if 'Other'**	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	**Air Injection Type if 'Other'**	--
Mfr Engine Configuration Comments	Applies to DWVA var: 0		

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

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	TVGA10092401	TVGA10092383	TVGA10092385	TVGA10092382	TVGA10092384	16.2	15.0	23.5	21.9	--

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Emission Data Vehicle Information

Vehicle ID / Configuration	SA3H-Q5-787 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	SVGAT02.0A3H	**Original Evaporative/Refueling Family**	SVGAR0171ADF
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Audi	**Represented Test Vehicle Model**	Q5 TFSI quattro

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1.0067
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	DXCA	**Rated Horsepower**	268
Displacement (liters)	2		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	1	**Air Aspiration Device Configuration**	Single
Charge Air Cooler Type	Air	**Drive Mode While Testing**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4464	**Equivalent Test Weight (pounds)**	4750
GVWR (lbs)	5500	**N/V Ratio**	26.4
Axle Ratio	5.3		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Dynamometer Coefficients:

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

Emission Control Device Comments DFI/AIR/TC/CAC/TWC(2)/GPF/WR-HO2S/HO2S

Manufacturer Test Vehicle Comments MY25 Audi Q5 TFSI quattro EVAP EDV, ETW 4750

Test #	**SVGA10089089**	**Test Procedure**	**65 - Evap Canister Bleed Test**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/03/2024	**Fuel**	N/A
Fuel Batch ID	WB0024	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	Volkswagen AG WOB2		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4000	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0103	--

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

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Emission Data Vehicle Information

Vehicle ID / Configuration	TN7S-A7-771 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	TVGAJ03.0N7S	**Original Evaporative/Refueling Family**	TVGAR0171NDG
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Audi	**Represented Test Vehicle Model**	A6

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	--	**Rechargeable Energy Storage System Indicator**	--
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1.0079
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	DWVA	**Rated Horsepower**	362
Displacement (liters)	3		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4608	**Equivalent Test Weight (pounds)**	5000
GVWR (lbs)	5710	**N/V Ratio**	22.9
Axle Ratio	4.41		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	50.42	0.3974	0.01842	8.22	0.1943	0.01823	15.5
Cold CO	55.46	0.4371	0.02026	0.54	-0.0377	0.02171	N/A
US06	50.42	0.3974	0.01842	8.22	0.1943	0.01823	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments S-Mode for EDV as Worst Case

Test #	**TVGA10091008**	**Test Procedure**	**23 - 2-day evap**
Exhaust Test # for this Evap Test	TVGA10090930	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/04/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3634	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.257	--

Manufacturer Test Comments 2DD

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2570	0.000	0.257	0.325	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2570	0.000	0.257	0.325	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10091010**	**Test Procedure**	**34 - Federal fuel 3-day evap**
Exhaust Test # for this Evap Test	TVGA10090932	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/23/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3807	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.272	--

Manufacturer Test Comments 3DD

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2720	0.000	0.272	0.325	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2720	0.000	0.272	0.325	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10091009**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	TVGA10090931	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/16/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3771	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0095	--

Manufacturer Test Comments ORVR

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	0.010	0.000	0.01	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.010	0.000	0.01	0.20	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10091011**	**Test Procedure**	**32 - Federal Fuel Running Loss**
Exhaust Test # for this Evap Test	TVGA10090932	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/23/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3807	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.000216	--

Manufacturer Test Comments RL

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

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Emission Data Vehicle Information

Vehicle ID / Configuration	TN7S-SQ5-532 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	TVGAJ03.0N7S	**Original Evaporative/Refueling Family**	TVGAR0171ADF
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Audi	**Represented Test Vehicle Model**	SQ5

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	TVGAR0171ADF-001

Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	No
Rechargeable Energy Storage System	--	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	0.9957
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	DWVA	**Rated Horsepower**	362
Displacement (liters)	3		
Air Aspiration Method	Turbocharged	**Air Aspiration Method, if 'Other'**	
Number of Air Aspiration Devices	2	**Air Aspiration Device Configuration**	Parallel
Charge Air Cooler Type	Liquid	**Drive Mode While Testing**	All Wheel Drive
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	4663	**Equivalent Test Weight (pounds)**	5000
GVWR (lbs)	5699	**N/V Ratio**	26.6
Axle Ratio	5.3		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	**# of Transmission Gears**	7
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	39.62	0.2501	0.02602	-6.05	0.2187	0.02402	15.6
Cold CO	43.59	0.2751	0.02862	-11.63	0.0249	0.02734	N/A
US06	39.62	0.2501	0.02602	-6.05	0.2187	0.02402	N/A

Emission Control Device Comments C | Combustion

Manufacturer Test Vehicle Comments EDV Tested in S-Mode (ETW = 5000lbs)

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10092381**	**Test Procedure**	**52 - Fed. fuel 50 F exh.**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/23/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5166	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	471.1512276	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.5955	--
FE BAG 1 (Bag 1 Fuel Economy)	18.447888	18.447888
CH4 BAG 1 (Bag 1 Methane)	0.0082	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0456	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	515.8919564	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1142	--
FE BAG 2 (Bag 2 Fuel Economy)	16.8809424	16.8809424
CH4 BAG 2 (Bag 2 Methane)	0	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0003	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	398.378784	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.3894	--
FE BAG 3 (Bag 3 Fuel Economy)	21.8344401	21.8344401
CH4 BAG 3 (Bag 3 Methane)	0	--
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0006	--
METHANE (CH4 - Methane)	0.001705	--
CO (Carbon Monoxide)	0.289479	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0793199	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4303994	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2539476	--
MFR FE (Manufacturer Fuel Economy)	18.4	18.4
NOX (Nitrogen Oxide)	0.0109601	--
HC-NM (Non-methane Hydrocarbon)	0.0088798	--
NMOG (Non-methane organic gases)	0.0098	--
HC-TOTAL (Total Hydrocarbon)	0.0103334	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	474	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	474.3572018	--

Manufacturer Test Comments 50FTP EDV Tested in Sport-Mode; SQ5; EDV ETW: 5000lbs; RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171NDG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-IV ULEV70	CO	0.29	--	--	--	--	--	0.3	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0098	--	1.0991	--	--	--	0.010	99.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0208	--	--	--	--	--	0.021	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.0110	--	--	--	--	--	0.011	99.999	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10092382**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/18/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5087	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	512.1965807	--
CO BAG 1 (Bag 1 Carbon Monoxide)	1.0529	--
FE BAG 1 (Bag 1 Fuel Economy)	16.9406869	16.9406869
CH4 BAG 1 (Bag 1 Methane)	0.0211	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1227	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	522.04818	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1343	--
FE BAG 2 (Bag 2 Fuel Economy)	16.680933	16.680933
CH4 BAG 2 (Bag 2 Methane)	0	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0009	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	405.2048166	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.2443	--
FE BAG 3 (Bag 3 Fuel Economy)	21.4792527	21.4792527
CH4 BAG 3 (Bag 3 Methane)	0.0002	--
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0003	--
METHANE (CH4 - Methane)	0.0044233	--
CO (Carbon Monoxide)	0.3547068	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0291213	--
DT-EER (Drive Trace Energy Economy Rating)	-0.834283	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2700041	--
MFR FE (Manufacturer Fuel Economy)	17.8	17.8
NOX (Nitrogen Oxide)	0.0171319	--
HC-NM (Non-methane Hydrocarbon)	0.0235443	--
NMOG (Non-methane organic gases)	0.0259	--
HC-TOTAL (Total Hydrocarbon)	0.027402	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	489	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	487.8964519	--

Manufacturer Test Comments COLDCO (EDV) Tested in Sport-Mode; SQ5 EDV ETW:5000lbs; RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171NDG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 70	CO	0.35	--	--	--	0.0200	--	0.4	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	HC-NM	0.02	--	--	--	0.0004	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV70	CO	0.35	--	--	--	0.02	--	0.4	10.0	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10092401**	**Test Procedure**	**21 - Federal fuel 2-day exhaust (w/can load)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/31/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0025	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5409	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	438.7707435	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.3966	--
FE BAG 1 (Bag 1 Fuel Economy)	19.7463528	19.7463528
CH4 BAG 1 (Bag 1 Methane)	0.0057	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0526	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	490.4834724	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.062	--
FE BAG 2 (Bag 2 Fuel Economy)	17.6925218	17.6925218
CH4 BAG 2 (Bag 2 Methane)	0	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	384.8770316	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.1566	--
FE BAG 3 (Bag 3 Fuel Economy)	22.5372531	22.5372531
CH4 BAG 3 (Bag 3 Methane)	0	--
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--
METHANE (CH4 - Methane)	0.0011764	--
CO (Carbon Monoxide)	0.1573935	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1309618	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1174022	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6238112	--
MFR FE (Manufacturer Fuel Economy)	19.2	19.2
NOX (Nitrogen Oxide)	0.015012	--
N2O (Nitrous Oxide)	0.0002259	--
HC-NM (Non-methane Hydrocarbon)	0.0099683	--
NMOG (Non-methane organic gases)	0.01	--
PM (Particulate Matter)	0.0003952	--
HC-TOTAL (Total Hydrocarbon)	0.0110704	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	451	451

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	450.7532752	--

Manufacturer Test Comments Test performed in S Mode; FTP Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171NDG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 70	CREE	451	--	--	--	0.0800	--	451	--	--
Fed	120,000 miles	Federal Tier 3 Bin 70	METHANE	0.0012	--	--	--	0.0003	--	0.002	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 70	N2O	0.0002	--	--	--	0.0000	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.16	--	--	--	0.0700	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.24	--	--	--	--	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0100	--	1.0991	--	0.0005	--	0.010	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0250	--	--	--	--	--	0.026	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0212	--	--	--	--	--	0.021	0.090	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0150	--	--	--	0.0000	--	0.015	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0004	--	--	--	0.0000	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.16	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0100	--	1.0991	--	0.0005	--	0.010	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0250	--	--	--	--	--	0.026	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0150	--	--	--	0.0000	--	0.015	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0004	--	--	--	0	--	0.000	0.003	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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10092384**	**Test Procedure**	**3 - HWFE**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/15/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4956	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.0735904	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.786866	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0176852	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.459139	--
MFR FE (Manufacturer Fuel Economy)	32.1	32.1
NOX (Nitrogen Oxide)	0.0020408	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0001205	--
NMOG (Non-methane organic gases)	0.0001	--
PM (Particulate Matter)	0.0001941	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	271	271

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	270.8908976	--

Manufacturer Test Comments Test performed in S Mode; VeCeD: HWY Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171NDG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 70	CREE	271	--	--	--	0.0800	--	271	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0001	--	1.0300	--	0.0005	--	0.001	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0021	--	--	--	--	--	0.003	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0020	--	--	--	0.0000	--	0.002	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0001	--	1.0300	--	0.0005	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.00214	--	--	--	--	--	0.003	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.00204	--	--	--	0.0000	--	0.0020	99.9990	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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10092383**	**Test Procedure**	**90 - US06**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/15/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4989	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	630.4239799	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.2918	--
FE BAG 1 (Bag 1 Fuel Economy)	13.8071895	13.8071895
CH4 BAG 1 (Bag 1 Methane)	0.0052	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0206	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	347.1646299	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1542	--
FE BAG 2 (Bag 2 Fuel Economy)	25.0732669	25.0732669
CH4 BAG 2 (Bag 2 Methane)	0.0022	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0132	--
METHANE (CH4 - Methane)	0.0028737	--
CO (Carbon Monoxide)	0.1847728	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7092161	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1260245	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.224903	--
MFR FE (Manufacturer Fuel Economy)	21.2	21.2
NOX (Nitrogen Oxide)	0.0087378	--
N2O (Nitrous Oxide)	0.0001421	--
HC-NM (Non-methane Hydrocarbon)	0.0144398	--
NMOG (Non-methane organic gases)	0.0149	--
PM (Particulate Matter)	0.00132	--
HC-TOTAL (Total Hydrocarbon)	0.0172658	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	410	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	410.0650355	--

Manufacturer Test Comments Test performed in S Mode; VeCeD: US06 Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171NDG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.18	--	--	--	0.0700	--	0.2	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0149	--	1.0300	--	0.0005	--	0.015	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0087	--	--	--	0.0000	--	0.009	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0013	--	--	--	0.0000	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.18	--	--	--	0.07	--	0.2	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0149	--	1.0300	--	0.0005	--	0.015	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0236	--	--	--	--	--	0.024	0.084	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0087	--	--	--	0	--	0.009	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0013	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Test #	**TVGA10092385**	**Test Procedure**	**95 - SC03**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/15/2025	**Fuel**	Gasoline
Fuel Batch ID	NK0022	**Fuel Calibration Number**	999
Vehicle Class	LDV/Passenger Car	**DF Type**	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5015	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.000863	--
CO (Carbon Monoxide)	0.1734619	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4444312	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2393964	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.4335003	--
MFR FE (Manufacturer Fuel Economy)	19.1	19.1
NOX (Nitrogen Oxide)	0.0137142	--
N2O (Nitrous Oxide)	0.0000458	--
HC-NM (Non-methane Hydrocarbon)	0.0008243	--
NMOG (Non-methane organic gases)	0.0008	--
PM (Particulate Matter)	0.0004392	--
HC-TOTAL (Total Hydrocarbon)	0.0016729	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	456	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	456.4749759	--

Manufacturer Test Comments Test performed in S Mode; VeCeD: SC03 Tested as SQ5 EDV ETW: 5000 RLHP: 15.6

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171NDG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.17	--	--	--	0.0700	--	0.2	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0008	--	1.0300	--	0.0005	--	0.001	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0137	--	--	--	0.0000	--	0.014	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.17	--	--	--	0.07	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0008	--	1.0300	--	0.0005	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0145	--	--	--	--	--	0.015	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0137	--	--	--	0	--	0.014	99.999	Pass

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Fuel Properties

Fuel Batch ID	**NK0022**	**Fuel Calibration Number**	**999**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	07/05/2024
Fuel Batch Calibration Effective Date	08/06/2024	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.754
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.775	**Fuel Carbon Mass Fraction (E10)**	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	**Weight Fraction CO2**	--

Fuel Batch ID	**NK0022**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	07/05/2024
Fuel Batch Calibration Effective Date	08/06/2024	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.754
Fuel Ethanol Volume Percent (%)	9.7	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17960
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	**Weight Fraction CO2**	--

Fuel Batch ID	**NK0025**	**Fuel Calibration Number**	**1**
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	06/19/2025
Fuel Batch Calibration Effective Date	07/04/2025	**Fuel Batch Calibration Ineffective Date**	--
Carbon Weight Fraction NMHC	--	**Carbon Weight Fraction HC**	--
Exhaust Carbon Weight Fraction	--	**Fuel Methanol Volume Fraction**	--
Fuel Density (grams/cubic ft)	--	**Fuel Specific Gravity**	0.754
Fuel Ethanol Volume Percent (%)	9.6	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.81	**Fuel Carbon Mass Fraction (E10)**	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	**Weight Fraction CO2**	--

Fuel Batch ID	**WB0024**	**Fuel Calibration Number**	**1**
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	**Fuel Batch Calibration Date**	01/23/2024

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG
Fuel Batch Calibration Effective Date	01/24/2024	**Fuel Batch Calibration Ineffective Date**	--
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 (%)	9.6	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	17932
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
Fuel	Gasoline	**Test Procedure**	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.0800	999
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
Fuel	Gasoline	**Test Procedure**	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.0800	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0003	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010
150,000 miles	CO	--	--	--	--	--	--	0.0700	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0005	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.090
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
Fuel	Gasoline	**Test Procedure**	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	9.6
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.084
150,000 miles	NOX	--	--	--	--	--	--	0	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
Fuel	Gasoline	**Test Procedure**	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.0700	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 3 Bin 70
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	--	--	--	--	--	--	0.0200	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0004	0.3

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
Fuel	Gasoline	**Test Procedure**	HWFE

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	NMOG	--	--	1.0300	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.9990

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
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	--	--	--	--	--	--	0.02	10.0

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-IV ULEV70
Fuel	Gasoline	**Test Procedure**	Fed. fuel 50 F exh.

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	1.7
4,000 miles	HCHO	--	--	--	--	--	--	--	0.016
4,000 miles	NMOG	--	--	1.0991	--	--	--	--	99.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.140
4,000 miles	NOX	--	--	--	--	--	--	--	99.999

Certification Summary Information Report

Test Group VVGAJ03.0N7S **Evaporative/Refueling Family** VVGAR0171NDG

Cert Region California + CAA Section 177 states **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **Standard Level** California LEV-IV ULEV70
Fuel Gasoline **Test Procedure** SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0	99.999

Cert Region California + CAA Section 177 states **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **Standard Level** California LEV-IV ULEV70
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	--	--	--	--	--	--	0.07	1.7
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0005	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region Federal **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **Standard Level** Federal Tier 3 Bin 70
Fuel Gasoline **Test Procedure** SC03

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.0700	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0005	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Evaporative/Refueling Family VVGAR0171NDG
Cert Region California + CAA Section 177 states
Cert/In-Use Code Both
Standard Level California LEV-IV Zero Evap (Option 2)
Test Procedure Federal Fuel Running Loss

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

Evaporative/Refueling Family VVGAR0171NDG
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	--	0.325	0.000

Evaporative/Refueling Family VVGAR0171NDG
Cert Region California + CAA Section 177 states
Cert/In-Use Code Both
Standard Level California LEV-IV Zero Evap (Option 2)
Test Procedure Federal fuel 3-day evap

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.325	0.000

Evaporative/Refueling Family VVGAR0171NDG
Cert Region California + CAA Section 177 states
Cert/In-Use Code Both
Standard Level California LEV-IV Zero Evap (Option 2)
Test Procedure Evap Canister Bleed Test

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--

Evaporative/Refueling Family VVGAR0171NDG
Cert Region Federal
Cert/In-Use Code Both
Standard Level Federal Tier 3 Evap
Test Procedure Federal fuel refueling test (ORVR)

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG

Evaporative/Refueling Family	VVGAR0171NDG	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.325	0.000

Evaporative/Refueling Family	VVGAR0171NDG	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Evap Canister Bleed Test		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--

Evaporative/Refueling Family	VVGAR0171NDG	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-IV Zero Evap (Option 2)
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Evaporative/Refueling Family	VVGAR0171NDG	**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	VVGAR0171NDG	**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	--	0.325	0.000

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	Evaporative/Refueling Family	VVGAR0171NDG

Glossary

Useful Life

4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		

Emission Name

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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG
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
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
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	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG
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		

Transmission Type Code			
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)

Drive System Code			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

Certification Summary Information Report

Test Group	VVGAJ03.0N7S	**Evaporative/Refueling Family**	VVGAR0171NDG
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		

Additional Terms and Acronyms

AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

8. Emission Testing Waiver Statements

Emissions Continuity Compliance Statement **NMOG, CO, CO2, NOx,** ***N_2O, CH_4, and HCHO***

In accordance with EPA Guidance Letter CD-14-19 and 40 CFR 86.1809-12 (e) the Volkswagen Group hereby certifies that based on engineering evaluations of emission testing there is no discontinuity in emission performance of NMOG, CO, CO2, NOx, N_2O, CH_4 and HCHO as measured and averaged over the Federal Test Procedure and the Highway Test Procedure in the temperature range of 20°F to 86°F for vehicles in this test group.

The normal operation of the emission control system consists of:
(i) Cycling back and forth in a narrow window between rich and lean operation as a result of feedback controls targeted to maintain overall engine operation at stoichiometry.

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

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

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

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

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

The modulation of the emission control system can cause step changes in emissions and CO2 depending on the driving condition (engine speed and load).
This modulation is not forming a discontinuity in emissions because it is included in the Federal Test Procedures and is working under the same conditions during on-road operation.

91 RON (Knock Sensor): Compliance Statement:
(Note: Statement only applies to regular fuel concepts)

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

A/C Calibrations – Compliance Statement

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

Lean Best Torque Compliance Statement

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

Lean-On Cruise Compliance Statement

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

OBD Compliance Statement

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

Leak Free Exhaust System Compliance Statement

In accordance with 40 CFR 86.1844-01(d)(16(i), the Volkswagen Group hereby states that, for vehicles described in this application, as appropriate, it has conducted an engineering analysis of the complete exhaust system to ensure that the exhaust system has been designed:
(A) To facilitate leak-free assembly, installation and operation for the full useful life of the vehicles, and
(B) to facilitate that such repairs as might be necessary on a properly maintained and used vehicle can be performed in such a manner as to maintain leak-free operation, using tools commonly available in a motor vehicle dealership or independent repair shop for the full useful life of the vehicle.
A “leak-free” exhaust system is understood from the engine block to the point in the exhaust system behind the last component of exhaust aftertreatment system (e.g. catalyst).
Silencer/muffler and tailpipes are not part of the exhaust aftertreatment system when installed downstream the last component of exhaust aftertreatment.
For installation/mounting of the exhaust system clamps and/or flanges are used with a technical leakage specification ensuring compliance with exhaust emission standards in-use. Meaning: The exhaust system is designed to fulfill the lowest leakage according to state-of-the-art exhaust aftertreatment systems.

High Altitude Exhaust Emissions Compliance Statement

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

Formaldehyde Emissions Compliance Statement

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

High Altitude Evaporative/Refueling Emissions Compliance Statement

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

Spitback Compliance Statement

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

Evaporative Leak Test Compliance Statement

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

Driver-Selectable modes Compliance Statement

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

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9.0 OBD System Description

9.1 Summary Table

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

9.2 California Air Resources Board OBD System Approval Letter.

Refer to Section 16

10. Description of Alternate Fueled Vehicles

Not applicable

11. Auxiliary Emission Control Devices (AECD) Descriptions

Refer to Section 16.2 of this Application

12.0 List of Certified Vehicles

Durability Group	VVGAGPGNNN7S
Test Group	VVGAJ03.0N7S
Evap Family	VVGAR0171ADF, VVGAR0171NDG
Emission Control System:	DFI/TC/2CAC/TWC/WR-HO2S/HO2S

Engine Displacement:	3.0 liter
Valves per Cylinder:	4
Sales Area:	50 states
MMS:	MG1 CS 202
SIL :	N/A

Engine Code	Model	Vehicle Class	Engine Code Characteristics			HP @RPM	Torque @RPM [lb-ft]	Trans. / OD	ETW	Curb Weight [lbs]	GVWR [lbs]	Fuel Tank Capacity [Gal]	Canister working capacity [g]	Tire size	N/V Ratio	Start/ Stop [Y/N]
			Cat. Code	Com-pression ratio	Idle [rpm]											
VVGAR0171ADF																
DWVA	SQ5	LDT 2	JM842 (PRE), JM842 (MAIN)	12± 0.3	690± 100	362 @6000	406 lb-ft @4000	7 / 5, 6, 7	4750	4541	5655	18.0	171	255/45 R20 255/40 R21	26.6 26.6	Y
DWVA	SQ5 Sportback	LDT 2	JM842 (PRE), JM842 (MAIN)	12± 0.3	690± 100	362 @6000	406 lb-ft @4000	7 / 5, 6, 7	4750	4541	5655	18.0	171	255/45 R20 255/40 R21	26.6 26.6	Y
VVGAR0171NDG																
DWVA	A6 Sedan	LDV	JM842 (PRE), JM842 (MAIN)	12±0.3	690± 100	362 @5500-6300	406 lb-ft @1700-4000	7 / 5, 6, 7	4750	4409	5710	16.1	171	245/45 R19 255/40 R20 255/35 R21	23.2 22.9 22.9	Y
DWVA	S5 Sport Sedan	LDV	JM842 (PRE), JM842 (MAIN)	12± 0.3	690± 100	362 @6000	406 lb-ft @4000	7 / 5, 6, 7	4750	4365	5423	16.1	171	245/40 R19 245/35 R20	24.0 24.0	Y

12.1 Transmissions

Transmission	Transmission Characteristic												
	Drivetrain	Gear Count	Lock-Up rpm		Gearbox Ratios								
			Gear	min/max	Axle	Gear 1	Gear 2	Gear 3	Gear 4	Gear 5	Gear 6	Gear 7	Gear 8
DL552-7A (SQ5)	AWD	7	n.a.	n.a.	5.302	3.188	2.190	1.517	1.057	0.738	0.557	0.433	-
DL552-7A (A6, S5)	AWD	7	n.a.	n.a.	4.410	3.188	2.190	1.517	1.057	0.738	0.557	0.433	-

12.2 Test conditions

Model	ETW	Road Track Coefficients						TRL50	TCDT	Fuel Tank Cap.	Fan Pos.	Drive Mode for Testing	Shift Sched. I.D.	Test Fuel	DF Source
		F0	F1	F2	F0	F1	F2								
	[lbs]	[lb*f]	[lb*f/mph]	[lb*f/(mph)²]	[N]	[N/(km/h)]	[N/(km/h)²]	[hp]	[s]	40% / 100% [Gal]					
SQ5 (SUV)	5000	39.62	0.2501	0.02602	176.25	0.6914	0.04469	15.6	20.0	7.2 / 18.0	20	S-mode	automatic	Tier 3 [EDV]	SN7S
SQ5 (SUV + SB)	4750	37.75	0.2501	0.02466	167.91	0.6914	0.04236	14.9	19.9	7.2 / 18.0	20	D-mode	automatic	Tier 2	SN7S
A6 Sedan	4750	44.11	0.2948	0.01889	196.21	0.8148	0.03244	14.1	21.0	6.4 / 16.1	20	D-mode	automatic	Tier 2	SN7S
A6 Sedan [CND]	4750	49.34	0.2948	0.01762	219.46	0.8148	0.03027	14.4	20.6	6.4 / 16.1	20	D-mode	automatic	Tier 2	SN7S
S5	4750	42.22	0.4541	0.01708	187.79	1.2552	0.02933	14.4	20.7	6.4 / 16.1	20	D-mode	automatic	Tier 2	SN7S
S5 [CND]	4750	47.44	0.4541	0.01640	211.04	1.2552	0.02816	14.8	20.1	6.4 / 16.1	20	D-mode	automatic	Tier 2	SN7S

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

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

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

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

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

12.3 e-Motor Details

n.a.

12.4 Battery details

n.a.

12.5 Charging details

n.a.

13.0 Test Group Projected Sales

Refer to Section 16 of this Test Group Application

13.1 Compliance Plans

Refer to Section 16 of the Common Section

14. Request for Certificate

14.1 Statement of Compliance

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

14.2 Durability Statement

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

15. Other Information

15.1 Revision Index

Sect No.	Date:	Comment:	R/C No.
Part 1			
All	07/15/2026	Initial Application created	

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

Running Change / Field Fix Log for test group only.

Model Year: 2027
Test Group: VVGAJ03.0N7S
Models: A6 Sedan, S5 Sport Sedan, SQ5, SQ5 Sportback
Evaporative Family: VVGAR0171NDG, VVGAR0171ADF

RC / FF Number	Description of Change / Reason	Date

15.3 ORVR Safety Statement

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

US EPA Fee Form

Help and EPA Instructions

* Required Field

General Information

Date: 06/01/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

VGA

Manufacturer Name *

Volkswagen Group of America

Contact Name *

Gregory Allen

Contact Email Address *

Gregory.Allen@vw.com

Contact Phone *

2487544209

Calendar Year complete application submitted to EPA *

2026

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

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

Engine Family / Evaporative Family / Test Group *

VVGAJ03.0N7S

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

$32,317.00

Payment Type *

Offline ACH

Comments

MY2027 Cert Fee for TG: VVGAJ03.0N7S
Pay.gov Tracking ID: 282RIFA2
Agency Tracking ID: 77405568957

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.

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VOLKSWAGEN

GROUP OF AMERICA

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

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

July 15, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions Certification for Test Group VVGAJ03.0N7S with Evaporative Family VVGAR0171ADF and VVGAR0171NDG.

Dear Mr. Kimball,

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

Test Group	Standards	Sales Area
VVGAJ03.0N7S	Tier 4 Interim Bin 70	Federal
	LEV 4 ULEV 70	California

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

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

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

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

Sincerely,

D'Ambrosi Anthony
VWPKI
5406C07D40F4331C

Digitally signed by D'Ambrosi Anthony VWPKI
5406C07D40F4331C
Date: 2026.07.15 09:31:14 -04'00'

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

Enclosure(s)

VOLKSWAGEN

GROUP OF AMERICA

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

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

July 15, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions Certification for Test Group VVGAJ03.0N7S with Evaporative Family VVGAR0171ADF and VVGAR0171NDG.

Dear Ms. Lang,

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

Test Group	Standards	Sales Area
VVGAJ03.0N7S	Tier 4 Interim Bin 70 LEV 4 ULEV 70	Federal California

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

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

Sincerely,

D'Ambrosi Anthony VWPKI 5406C07D40F4331C

Digitally signed by D'Ambrosi Anthony VWPKI 5406C07D40F4331C
Date: 2026.07.15 09:31:49 -04'00'

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

Enclosure(s)

California ARB Information

17.1 California Compliance Statements

Production Vehicle same as Test Vehicle Statement

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

Smog Check Compliance Statement

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

CARB Fill Pipe Bench Leak Rate Compliance Statement

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

Environmental Performance Label Information

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

California Emissions Warranty Statement

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

Adjustable Parameters/Tamper Resistance Statement

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

LEV IV SC03 Compliance

In accordance with California Code of Regulations Title 13 Section 1961.4 (d)(4), Volkswagen Group attests that vehicles tested using the SC03 test procedure meet the NMOG+NOx and CO exhaust emissions requirements.

17.2 Fill Pipe Specifications

Please refer to Section 16

17.3 Evaporative Emission Deterioration Program

Please refer to Common Section Application

17.4 Assembly line NMOG / NMHC Factor

F_{NMOG}: Calculated per EPA 40CFR part 1066

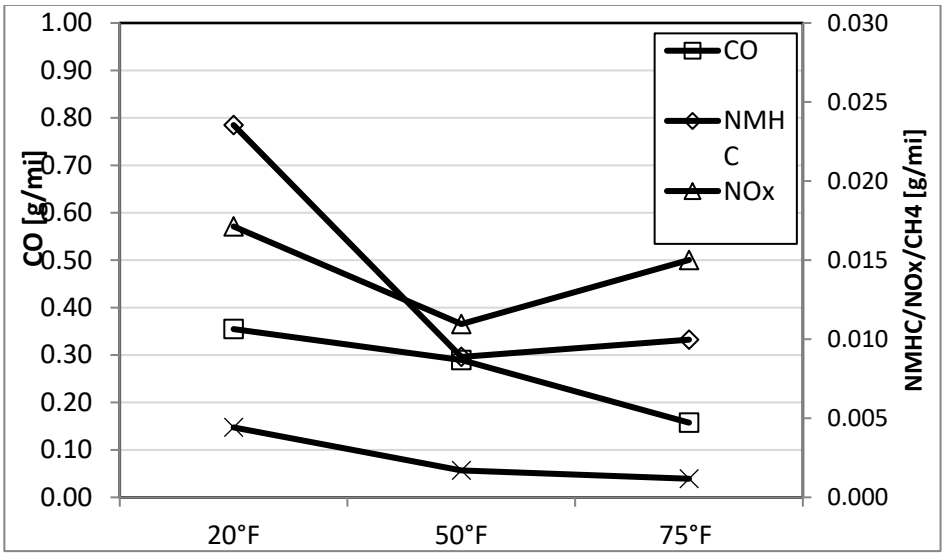
F_{HCHO} (Indolene):

F_{HCHO} (Phase II):

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

17.5 Continuity of Emissions

SO5



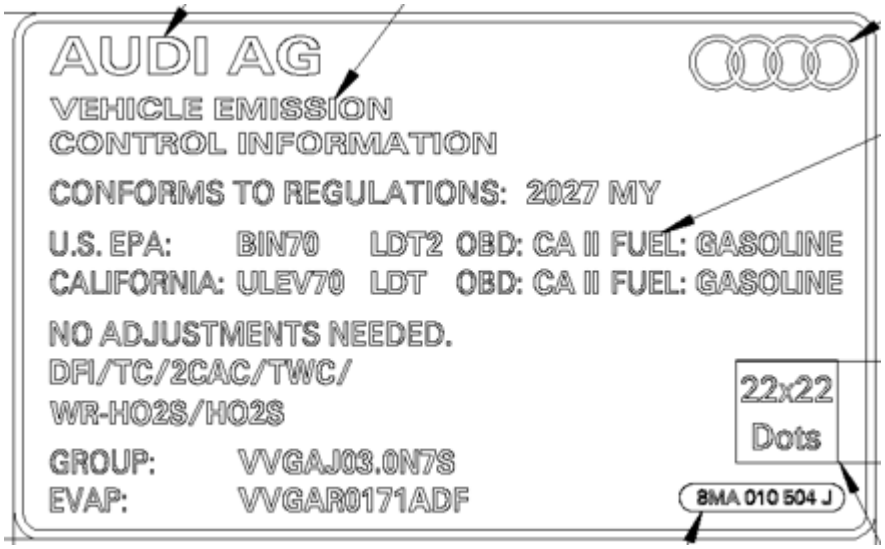
17.6 Applicable Deterioration Factors

	THC (g/mi)	NMHC (g/mi)	NMOG (g/mi)	NOx (g/mi)	CO (g/mi)	HCHO (mg/mi)	PM (g/mi)	NMOG+NOx (g/mi)
50k	0.0002	0.0002	0.0002	0	0.02	-	0	0.0002
150k	*0.0005	*0.0004	0.0005	0	0.07	-	0	0.0005

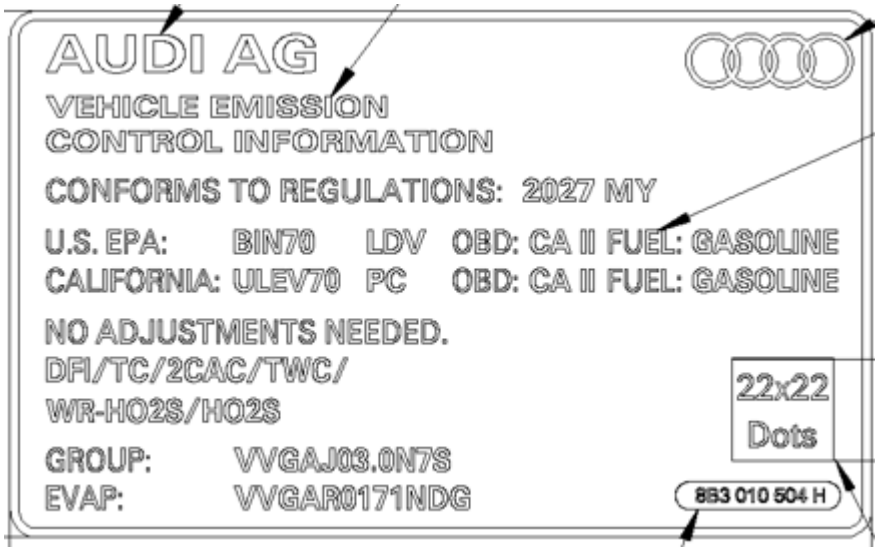
*120k

21. Vehicle Emission Control Information Label

SQ5 (8MA.010.504.J)



A6 Sedan, S5 (8B3.010.504.H)



21.2 Powertrain Control Module (PCM) Information (812C)

Model	Engine Code	Diagnosis address	SW-Part number	Cal ID	CVN	Comments
SQ5	DWVA	812C	0Z7.907.182.BC 1651	0Z7907BCAC99182D	68 74 86 EA	Latest MY26 for c/o
				BOOT0001687486EA	AC 99 18 2D	
		07C9	8MA.907.473.J 0002	8MA07473B36B8B62	B3 6B 8B 62	
		07D0	V04.007.009.JT 1618	V04070090BD56F48	0B D5 6F 48	
		07E7	V04.007.008.QT 1614	V0407008AE9929E6	AE 99 29 E6	
A6 Sedan	DWVA	812C	0Z7.907.479.CN 1661	0Z7907CN909DAED1	90 9D AE D1	Certification
				BOOT0001687486EA	68 74 86 EA	
		07C9	4P5.907.473.AE 0002	4P507473F11C334B	F1 1C 33 4B	
		07D0	V04.007.009.KG 1622	V0407009EFBEA4C8	EF BE A4 C8	
		07E7	V04.007.008.RG 1618	V0407008FE12408A	FE 12 40 8A	
S5	DWVA	812C	0Z7.907.479.CN 1661	0Z7907CN053F9BF5	05 3F 9B F5	Certification
				BOOT0001687486EA	68 74 86 EA	
		07C9	8B3.907.473.AL 0002	8B30747326BB0B8C	26 BB 0B 8C	
		07D0	V04.007.009.KG 1622	V0407009A269FAA3	A2 69 FA A3	
		07E7	V04.007.008.RG 1618	V0407008AAEB91A3	AA EB 91 A3	

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

21.2.1 Airbag Control Module Information (0015)

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
SQ5	DWVA	8MA 959 655 1501 8MA 959 655 A 1501	8MA655++150165CB 8MA655A+150169CB	46 5D D5 BA 47 76 D5 BE	Latest MY26 for c/o (RC_T2.0A2H_ 3.0N7S_030_26)
A6 Sedan	DWVA	85E.959.655.AN 0640	85E655AN064069CB	B1 23 47 BD	Certification
S5	DWVA	85E.959.655.BJ 1501	85E655BJ150169CB	33 96 D5 BE	Certification

21.2.2 Steering Column Control Module Information (0016)

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
SQ5, A6 Sedan, S5	DWVA	---	85E129++00720000	C0 48 00 92	Certification

SW-Part numbers depend on vehicle equipment ordered.

21.3 Engine Control Module (ECM) Information (0001)

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
SQ5	DWVA	8MA 907 559 G 0003	8MA559G 0003CVAK	4A C1 46 FC	Latest MY26 for c/o (RC_TV3.0 N7S_10_25)
A6 Sedan	DWVA	4P5.907.559.AE 0002	4P5559AE0002CVAK	17 0C E0 D3	Certification
S5	DWVA	8B3.907.559.AE 0002	8B3559AE0002CVAK	99 82 0F BF	Certification

21.4 Transmission Control Module (TCM) Information (0002)

Model	Trans Code	SW-Part number	Cal ID	CVN	Comments
SQ5	DL552-7A	8MA.927.153 BA 0003	8MA153BA0003C000	F5 53 68 34	Latest MY26 for c/o (RC_ S2.0AxH_S-T3.0N7S_113_25)
A6 Sedan	DL552-7A	4P5.927.153.AL 0001	4P5153AL0001U000	FA 66 1B 49	Certification
S5	DL552-7A	8B3.927.153.BG 0001	8B3153BG0001U000	08 AF 03 15	Certification

21.5 Gateway Control Module (GWM) Information (0019)

Model	Trans Code	SW-Part number	Cal ID	CVN	Comments
SQ5	DL552-7A	85F 907 468 P 0178	85F468P+01782+15 0115S02211++++++ 0215000301000000 0215000701000000 0215000309000000 0215000709000000 03156244VA1XVA2J 03156144VA1XVA2J 0415524564011254 0515V0P8++++++++ 0515V0P9++++++++ 0515V0PA++++++++	C9 58 82 27 F8 54 2F FC 45 57 0A 48 F5 8E 79 CA FE 8F A8 50 4E 56 DB D2 38 98 B2 B9 D1 C6 FD 70 22 85 1D A3 89 53 BF FA 88 16 58 34 4F 96 3C EA	Latest MY26 for c/o (RC_T2.0A2H_3.0N7S_033_26)
S5, A6 Sedan	DL552-7A	85F.907.468.AD 0372	85F468AD03722+1N 011NS02221++++++ 021N000301000000 031N6245VA4NVA3N 041N524564011254 051NV17K++++++++	1C 88 22 38 1E 66 A2 9A 82 80 A2 FC 16 D6 82 C9 E5 52 B5 17 BF 50 65 24	Certification

21.6 Brake System Control Module (BSCM) Information (0003)

Model	Trans Code	SW-Part number	Cal ID	CVN	Comments
SQ5	DL552-7A	8B3.909.059.N 0555	8B3059N+D4DB12C1	D4 DB 12 C1	Latest MY26 for c/o
S5	DL552-7A	8B3.909.059.N 0555	8B3059N+FCF56B15	FC F5 6B 15	Certification
A6 Sedan	DL552-7A	8B3.909.059.N 0555	8B3059N+DD79DF27	DD 79 DF 27	Certification

21.7 Vehicle Thermal Management Control Module (VTMC) Information (00C5)

Model	Trans Code	SW-Part number	Cal ID	CVN	Comments
SQ5, S5, A6 Sedan	DL552-7A	4M1.907.059.C 2616	4M1059C+54FEAFD8	54 FE AF D8	Certification