Kim, Seong Hun

From: noreply@salesforce.com on behalf of California Air <mscertfees@arb.ca.gov>
Sent: Wednesday, June 10, 2026 11:18 AM
To: Kim, Seong Hun
Cc: Fees@arb.ca.gov
Subject: [From: External] Adjusted MS Fee Invoice # MSF251004-1
Attachments: MSF251004-1 - signed.pdf

Dear Seong Hun Kim

Attached is your final adjusted invoice replacing MSF251004

If you have additional questions regarding the fee invoicing and payment process, please go to CARB's MS Fees webpage at https://ww2.arb.ca.gov/mobile-source-certification-and-compliance-fee-regulation-meetings-workshops.

Kim, Seong Hun

From: noreply@salesforce.com on behalf of California Air <mscertfees@arb.ca.gov>
Sent: Monday, April 20, 2026 2:03 PM
To: Kim, Seong Hun
Subject: [From: External] MS Fee Payment Confirmation for Invoice MSF251004
Attachments: MSF251004 - signed.pdf

Dear Seong Hun Kim

Attached is documentation for your MS Fee payment for Invoice Name MSF251004. Please include a copy of this invoice and email with each application that is listed when submitting your application to the applicable MS Fee program.

1. Payment ID – 25RA0381
2. Date of Payment – 4/17/2026
3. Payment Status - Paid

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	MSF251004-1
Invoice Date	Jun 10, 2026

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	VVGAV06.5LAB	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAV06.5LAB	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	$ 0.00
2	VVGAV06.5LAC	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAV04.0LAC	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	$ 0.00
3	VVGAT04.0LFA	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAT04.0LFA	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	$ 0.00
4	VVGAT04.0LTA	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	VVGAT04.0LTA	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00	$ 0.00

Total Invoice (MSF251004) Paid	$ 201,236.00	**Total Corrected**	$ 201,236.00
		Total Due	$ 0.00

Notes
Changed UID for Row 2 from VVGAV06.5LAC to VVGAV04.0LAC.

I, Tony DAmbrosi
Tony DAmbrosi (Jun 10, 2026 11:17:46 EDT) , attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

Automobili Lamborghini S.p.A., a member of the Volkswagen Group

Application for Emissions Certification

2027 **Model Year**

Durability Group: VVGAGPGNNLAC

Evap. Family: VVGAR0172LDA

Test Group: VVGAV04.0LAC

Certificate Number: -XXX

Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled, Direct Injection Multipoint, Catalyst Code: 634009

Test Group Description: 4.0 Liter V8 DFI/2CAC/2TC/2WR-HO2S/2TWC/2HO2S/2GPF LDV

Battery Capacity (kWh): 7.31 kWh

Applicable Exhaust Standards: 50 States

Federal: Tier 4 interim Bin 50
California: LEV III ULEV50

Applicable Evaporative Standards: 50 State

Federal: Tier 4 FEL: 500 mg
California: LEVIII FEL: 500 mg

Carlines Covered: Temerario, Temerario Coupe

Vehicles Tested:

VID	Config.	Test Type / #		Test Type / #	
LB634__00124	1	2xUDDS/	VVGA10094441	SC03/	VVGA10094432
LB634__00124	1	HFET/	VVGA10094408	Cold CO/	VVGA10094420
LB634__00124	1	US06/	VVGA10094415	50°F FTP/	VVGA10094421
LB634__0060	0	2-Day/	TVGA10092342	ORVR/	TVGA10091624
LB634__0060	0	3-Day/	TVGA10092344	Running Loss/	TVGA10092343

Issue Date: 06/12/2026

Questions, Contact:

EEO Office, Auburn Hills, Michigan

Table of Contents

1. Correspondence and Communication

Please refer to the Common Section

2. Durability Group Description

Durability Source Basics	
Durability Procedure	Assigned DF
Durability Group Name	VVGAGPGNNLAC
Source of Durability Data	n.a.
Relation Factor BAT VWADP / BAT SRC	n.a.
Engine Type	Piston
Combustion Method	Otto Cycle
Fuel Used	Gasoline
Basic Fuel Metering System	Direct Injection Multipoint
Displacement [l]	4.0

Catalyst / After treatment device specifics		
	Durability Group Statistics	**Durability Data Vehicle**
Catalyst Construction		Metal Monolith
Precious Metal Composition TWC		Pd/Rh
PTOX TWC		n.a.
NAC:1 SCRC: 2		n.a.
Total Catalyst Volume [l]		5.27
Total Precious Metal Loading [g]		29.76
Precious Metal Load Rate PM [g] / CV [l]		5.65
Cat. Grouping Statistic	7.4	7.4
Durability Group Limit (25% or 0.2 g/l)	5.6	5.6
Test Group Covered		VVGAV04.0LAC

3. Evaporative / Refueling Family Description

			C/O
Evaporative / Refueling Family Name		VVGAR0172LDA	TVGAR0172LDA
Vapor storage device	Canister	Yes	Yes
	Other	-	-
Basic canister design	Working Capacity (g)	172	172
	Bed Volume (cm^3)	2600	2600
	Number, config.	1	1
	Geometry	Other	Other
	Construction	5-Chamber	5-Chamber
	Bleeding trap	No	No
	Bleed trap Working Capacity (g)	n.a.	n.a.
	Material	Plastic	Plastic
Fuel System		G	G
Type of refueling system	Integrated	-	-
	Non-integrated	Yes	Yes
	Other	-	-
Fill pipe seal mechanism	Liquid seal	Yes	Yes
	Mechanical Seal	-	-
	Other	-	-
Method of controlling vapor flow to the engine	Vacuum	Yes	Yes
	Purge valve	Yes	Yes
	Other	-	-
Purge control system	Valve type	Duty cycle	Duty cycle
	Control	ECM	ECM
Vapor hose material	4 / multi-layer hose	Yes	Yes
	Stainless Steel	-	-
	Alloy	-	-
Fuel tank material	Metal	Yes	Yes
	Plastic	-	-
	Other	-	-
Test groups combined with this Evap. family		VVGAV04.0LAC	

4. Durability Procedure Description

Please refer to the Common Section

5.0 Test Group Description

Test Group Name:	VVGAV04.0LAC
Evap. Family:	VVGAR0172LDA
Certificate Number:	VVGAV04.0LAC-xxx
Engine displacements covered:	4.0 l
Arrangement and number of cylinders:	V8
Vehicle class(es) covered:	LDV
Federal Emissions Standards Class:	Tier4 interim BIN 50
California Emissions Standards Class:	LEV III ULEV50

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:
Models: Lamborghini Temerario
Test Group: VVGAV04.0LAC
Evaporative/Refueling Family: VVGAR0172LDA

VID	Config.	Vehicle Type	Tests Performed
LB634_00124	1	EDV	CS: 2xUDDS, HWY, US06, SC03, Cold FTP, 50F FTP
LB634_00124	0	FEDV	CS: 2xUDDS, HWY, US06, SC03, Cold FTP
			CD: UDDS, HWY
LB634_00124	1	FEDV	CS: 2xUDDS, HWY, US06, SC03, Cold FTP
			CD: UDDS, HWY
LB634_0060	0	Evap	3Day Evap, 2Day Evap, Running Loss, ORVR

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	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
Certificate Number	--	**CARB Executive Order #**	--
Certificate Issue Date	--	**Certificate Revision Date**	--
Certificate Effective Date	--	**Conditional Certificate**	--
CSI Revision #	--	**CSI Submission/Revision Date**	06/12/2026 10:48:32 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Group Information

CSI Type	Update for Correction	**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

Drive Source #2: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	No

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Rechargeable Energy Storage System Indicator**	Yes
Multiple Fuel Combustion	--	**Off-board Charge Capable Indicator**	Yes
Fuel Cell Indicator	No	**EPA Vehicle Class**	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	VVGAGPGNNLAC	**Durability Group Equivalency Factor**	1
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	Yes		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VVGAV04.0LAC
Test Group OBD Compliance Level	Partial - with deficiencies	**Number of Test Group OBD Deficiencies**	1
OBD Deficiencies Comments	VVGAV06.5LAB: Non-compliance with OBDonUDS requirements, communicated to CARB January 15th 2025, Ref. E-26-032.		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Evaporative/Refueling Family Information

Evaporative Summary Information Type	New	**Submission/Correction Date**	06/10/2026 11:48:53 AM
Integrated ORVR?	No	**Fuel(s)**	Electricity, Gasoline
Multiple Fuel Storage	Fuels Stored Separately		
Bladder Fuel Tank?	No		
Fuel Tank Material	Metal	**Fuel Tank Material Description**	--
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)	172	**Number of Primary Canisters**	1
Number of Bleed Canisters	0	**Bleed Canister Total Working Capacity (grams)**	--
Mfr Evaporative/Refueling Family Comments	Carry-Over Testing (MY26) - MCT tests for 2DBL/3DBL/RL		

Leak Family Details

Leak Family Indicator	Yes		
Canister Bleed Test Indicator	No	**Applicability of Evaporative Canister Bleed Test**	--
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
VVGAR0172LDA-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.	4 - Lamborghini	476 - Temerario	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	4 - Lamborghini	476 - Temerario	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	4 - Lamborghini	477 - Temerario Coupe	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	4 - Lamborghini	477 - Temerario Coupe	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Engine Description

Hybrid Type	IC Engine/Electric Motor	**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**	0W40 VW50200 / VW50500
Number of Cylinders/Rotors	8	**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	Metal	Monolith
2	Three-way catalyst	Palladium + Rhodium	Metal	Monolith

Mfr After Treatment Device (ATD) Comments	Other ATD = 2xGPFs
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	GPF was not an option to select - equipped with 2-GPFs

Engine Configuration Number 1

Engine Displacement (liters)	4.0	**Engine Rated Horsepower**	788
Number of Inlet Valves Per Cylinder	2	**Number of Exhaust Valves Per Cylinder**	2
Air Aspiration Method	Turbocharged	**Number of Air Aspiration Devices**	2
Air Aspiration Device Configuration	Parallel	**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	ELECTRONICALLY CONTROLLED - HYDRAULICALLY ADJUSTED VARIBLE VALVE TIMING		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	1	**Number of Air/Fuel Sensors**	4
Air/Fuel Sensor # 1 Type	Heated oxygen	**Air/Fuel Sensor # 1 Description**	--
Air/Fuel Sensor # 2 Type	Heated oxygen	**Air/Fuel Sensor # 2 Description**	--
Air/Fuel Sensor # 3 Type	Heated oxygen	**Air/Fuel Sensor # 3 Description**	--
Air/Fuel Sensor # 4 Type	Heated oxygen	**Air/Fuel Sensor # 4 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 DZS var: 0		

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA

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	VVGA10094441	VVGA10094415	VVGA10094432	VVGA10094420	VVGA10094408	--	7.1	--	8.5	--
Electricity	VVGA10094441	VVGA10094415	VVGA10094432	VVGA10094420	VVGA10094408	--	--	--	--	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Electricity	VVGA10094441	VVGA10094415	VVGA10094432
Gasoline	VVGA10094441	VVGA10094415	VVGA10094432

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Electricity	VVGA10094471	VVGA10094532
Gasoline	VVGA10094471	VVGA10094532

Hybrid Electric Vehicle And Fuel Cell Information

Rechargable Energy Storage System	Battery(s)	**Rechargable Energy Storage System, if Other**	--
Battery Type	Lithium Ion	**Number of Battery Packs**	1
Total Voltage of Battery Packs	355	**Battery Energy Capacity**	20.40
Battery Specific Energy	80.3	**Battery Charger Type**	Off-Board
Number of Capacitors	--	**Capacitor Rating (In Farads)**	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	**Driver Controlled Regenerative Braking**	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	AC-3 phase	**Rated Motor/Generator Power**	110
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	**Usable H2 Fill Capacity (kg)**	--
Mfr Hybrid Electric/ Electric Vehicle Comments	1 battery consisting of 6 modules cylindrical Number of battery cells = 768 3x e-motors @110kW each		

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Emission Data Vehicle Information

Vehicle ID / Configuration	LB634_00124 / 1	**Manufacturer Vehicle Configuration Number**	1
Original Test Group Name	VVGAV04.0LAC	**Original Evaporative/Refueling Family**	VVGAR0172LDA
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Lamborghini	**Represented Test Vehicle Model**	Temerario

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	VVGAR0172LDA-001

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	0.9962
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	DZS	**Rated Horsepower**	788
Displacement (liters)	4		
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)	4586	**Equivalent Test Weight (pounds)**	5000
GVWR (lbs)	5049	**N/V Ratio**	29.9
Axle Ratio	2.55		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA

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	51.08	0.5615	0.02166	6.25	0.1378	0.21951	17.8
Cold CO	56.18	0.6177	0.02383	-23.61	-0.1122	0.02329	N/A
US06	51.08	0.5615	0.02166	6.25	0.1378	0.21951	N/A

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

Manufacturer Test Vehicle Comments --

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094420**	**Test Procedure**	**11 - Cold CO**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	02/03/2026	**Fuel**	Gasoline
Fuel Batch ID	LB0024	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4346	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	10.991	--
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1181.9482608	--
CO BAG 1 (Bag 1 Carbon Monoxide)	1.23	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	1125.9736672	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.24	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	729.1755808	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.19	--
METHANE (CH4 - Methane)	0.0051983	--
CO (Carbon Monoxide)	0.4287621	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7691686	--
DT-EER (Drive Trace Energy Economy Rating)	0.3648149	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.273614	--
MFR FE (Manufacturer Fuel Economy)	8.4	8.4
NOX (Nitrogen Oxide)	0.0130664	--
N2O (Nitrous Oxide)	0.0008494	--
HC-NM (Non-methane Hydrocarbon)	0.0445853	--
NMOG (Non-methane organic gases)	0.0446	--
PM (Particulate Matter)	0.0002924	--
HC-TOTAL (Total Hydrocarbon)	0.0489528	--
WATT-HRS (Watt Hours)	1136.78	--

Certification Summary Information Report

Test Group VVGAV04.0LAC **Evaporative/Refueling Family** VVGAR0172LDA

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	1029	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	1028.3468368	--

Manufacturer Test Comments COLD CO E10 \\ Tested as Temerario EDV ETW: 5000 RLHP: 17.8

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 4 Bin 50	CO	0.43	--	--	--	0.1600	--	0.6	10.0	Pass
Fed	120,000 miles	Federal Tier 4 Bin 50	HC-NM	0.04	--	--	--	0.0056	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-III ULEV50	CO	0.43	--	--	--	0.1600	--	0.6	10.0	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094421**	**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	01/29/2026	**Fuel**	Gasoline
Fuel Batch ID	LB0022	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4287	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	11.035	--
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1271.9976559	--
CO BAG 1 (Bag 1 Carbon Monoxide)	1.08	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	1325.4146801	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.73	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	686.6678168	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.26	--
METHANE (CH4 - Methane)	0.0049016	--
CO (Carbon Monoxide)	0.6706902	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.2822962	--
DT-EER (Drive Trace Energy Economy Rating)	0.0522292	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.0989595	--
MFR FE (Manufacturer Fuel Economy)	7.7	7.7
NOX (Nitrogen Oxide)	0.0093873	--
N2O (Nitrous Oxide)	0.0007664	--
HC-NM (Non-methane Hydrocarbon)	0.0168957	--
NMOG (Non-methane organic gases)	0.0169	--
PM (Particulate Matter)	0.0007166	--
HC-TOTAL (Total Hydrocarbon)	0.0206415	--
WATT-HRS (Watt Hours)	1135.96	--

Certification Summary Information Report

Test Group VVGAV04.0LAC **Evaporative/Refueling Family** VVGAR0172LDA

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	1140	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	1139.0735664	--

Manufacturer Test Comments 50FTP E10 \\ Tested as Temerario EDV ETW: 5000 RLHP: 17.8

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-III ULEV50	CO	0.67	--	--	--	--	--	0.7	1.7	Pass
CA	4,000 miles	California LEV-III ULEV50	NMOG	0.0169	--	1.1	--	--	--	0.017	99.999	Pass
CA	4,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0263	--	--	--	--	--	0.026	0.100	Pass
CA	4,000 miles	California LEV-III ULEV50	NOX	0.0094	--	--	--	--	--	0.009	99.999	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094441**	**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	01/28/2026	**Fuel**	Gasoline
Fuel Batch ID	LB0022	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4257	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
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	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
ACT-DISTANCE (Actual Distance Driven (miles))	14.962	--
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1197.9301733	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.86	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	1321.5839586	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.55	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	679.4219064	--
CO BAG 3 (Bag 3 Carbon Monoxide)	0.29	--
CO2 BAG 4 (Bag 4 Carbon Dioxide)	909.1293691	--
CO BAG 4 (Bag 4 Carbon Monoxide)	0.19	--
METHANE (CH4 - Methane)	0.0027916	--
CO (Carbon Monoxide)	0.436289	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1714833	--
DT-EER (Drive Trace Energy Economy Rating)	0.7134762	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.8967781	--
MFR FE (Manufacturer Fuel Economy)	8.8	8.8
NOX (Nitrogen Oxide)	0.0078588	--
N2O (Nitrous Oxide)	0.0008975	--
HC-NM (Non-methane Hydrocarbon)	0.0104768	--
NMOG (Non-methane organic gases)	0.0105	--
PM (Particulate Matter)	0	--
HC-TOTAL (Total Hydrocarbon)	0.012611	--
WATT-HRS (Watt Hours)	1756.23	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	999	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	997.6630841	--

Manufacturer Test Comments FTP E10 \\ Tested as Temerario EDV ETW: 5000 RLHP: 17.8

Certification Summary Information Report

Test Group VVGAV04.0LAC **Evaporative/Refueling Family** VVGAR0172LDA

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	120,000 miles	Federal Tier 4 Bin 50	CREE	999	--	--	--	0.2700	--	999	--	--
Fed	120,000 miles	Federal Tier 4 Bin 50	METHANE	0.0028	--	--	--	0.0026	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 4 Bin 50	N2O	0.0009	--	--	--	0.0011	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	CO	0.44	--	--	--	0.1600	--	0.6	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	CO-COMP	0.81	--	--	--	--	--	0.8	4.2	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0105	--	1.1	--	0.0062	--	0.017	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX	0.0184	--	--	--	--	--	0.029	0.050	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX-COMP	0.0286	--	--	--	--	--	0.029	0.080	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0079	--	--	--	0.0047	--	0.013	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	PM	0.0000	--	--	--	0.0000	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.44	--	--	--	0.1600	--	0.6	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.81	--	--	--	--	--	0.8	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0105	--	1.1	--	0.0062	--	0.017	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0184	--	--	--	--	--	0.029	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0286	--	--	--	--	--	0.029	0.080	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0079	--	--	--	0.0047	--	0.013	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0000	--	--	--	0.0000	--	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	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094408**	**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	01/27/2026	**Fuel**	Gasoline
Fuel Batch ID	LB0022	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4176	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	10.237	--
METHANE (CH4 - Methane)	0.0050094	--
CO (Carbon Monoxide)	0.488121	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.07133	--
DT-EER (Drive Trace Energy Economy Rating)	-1.070044	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.780847	--
MFR FE (Manufacturer Fuel Economy)	11.8	11.8
NOX (Nitrogen Oxide)	0.0017099	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0010169	--
NMOG (Non-methane organic gases)	0.001	--
HC-TOTAL (Total Hydrocarbon)	0.0057569	--
WATT-HRS (Watt Hours)	601.06	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	741	741

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	740.0961064	--

Manufacturer Test Comments EDV ETW: 5000 RLHP: 17.8 (Config = 1)

Certification Summary Information Report

Test Group VVGAV04.0LAC **Evaporative/Refueling Family** VVGAR0172LDA

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 4 Bin 50	CREE	741	--	--	--	0.2700	--	741	--	--
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0010	--	1.0300	--	0.0062	--	0.007	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX	0.0027	--	--	--	--	--	0.014	0.050	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0017	--	--	--	0.0047	--	0.006	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0010	--	1.0300	--	0.0062	--	0.007	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0027	--	--	--	--	--	0.014	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0017	--	--	--	0.0047	--	0.006	99.000	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	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094415**	**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	01/27/2026	**Fuel**	Gasoline
Fuel Batch ID	LB0022	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4222	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	8.014	--
METHANE (CH4 - Methane)	0.0037369	--
CO (Carbon Monoxide)	0.6260717	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.486949	--
DT-EER (Drive Trace Energy Economy Rating)	0.0449776	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.476271	--
MFR FE (Manufacturer Fuel Economy)	9.7	9.7
NOX (Nitrogen Oxide)	0.0056872	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0007425	--
NMOG (Non-methane organic gases)	0.0007	--
PM (Particulate Matter)	0.0009059	--
HC-TOTAL (Total Hydrocarbon)	0.0039042	--
WATT-HRS (Watt Hours)	455.18	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	901	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	900.3975514	--

Manufacturer Test Comments Tested as Temerario EDV ETW: 5000 RLHP: 17.8

Certification Summary Information Report

Test Group VVGAV04.0LAC **Evaporative/Refueling Family** VVGAR0172LDA

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 50	CO	0.63	--	--	--	0.1600	--	0.8	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0007	--	1.0300	--	0.0062	--	0.007	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0057	--	--	--	0.0047	--	0.010	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	PM	0.0009	--	--	--	0.0000	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.63	--	--	--	0.1600	--	0.8	99.0	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0007	--	1.0300	--	0.0062	--	0.007	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0057	--	--	--	0.0047	--	0.010	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0009	--	--	--	0.0000	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094432**	**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	02/26/2026	**Fuel**	Gasoline
Fuel Batch ID	IG0057	**Fuel Calibration Number**	1
Vehicle Class	LDV/Passenger Car	**DF Type**	EPA Assigned
Verify Test Lab ID	AUDI AG Ingolstadt		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4815	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	3.589	--
METHANE (CH4 - Methane)	0.0128137	--
CO (Carbon Monoxide)	0.8585752	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1700336	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6031977	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.6061633	--
MFR FE (Manufacturer Fuel Economy)	5.1	5.1
NOX (Nitrogen Oxide)	0.0136598	--
HC-NM (Non-methane Hydrocarbon)	0.0119199	--
NMOG (Non-methane organic gases)	0.0119	--
HC-TOTAL (Total Hydrocarbon)	0.0243371	--
WATT-HRS (Watt Hours)	3794.43	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	1696	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	1694.54589	--

Manufacturer Test Comments Tested as Temerario EDV ETW: 5000 RLHP: 17.8

Certification Summary Information Report

Test Group VVGAV04.0LAC **Evaporative/Refueling Family** VVGAR0172LDA

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 4 Bin 50	CO	0.86	--	--	--	0.1600	--	1.0	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0119	--	1.0300	--	0.0062	--	0.018	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0137	--	--	--	0.0047	--	0.018	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.86	--	--	--	0.1600	--	1.0	99.0	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0119	--	1.0300	--	0.0062	--	0.018	99.000	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0137	--	--	--	0.0047	--	0.018	99.000	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094471**	**Test Procedure**	**81 - Charge Depleting UDDS**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	02/12/2026	**Fuel**	N/A
Fuel Batch ID	IG0058	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4532	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	239.8	**Recharge Event Energy (kiloWatt-hours)**	5.87
Charge Depleting Range (Calculated miles)	10.251	**Charge Depleting Range (Actual miles)**	10.251
Charge Depleting Range Highway (Calculated miles)	--	**Derived 5-Cycle Coefficient Model Year**	2017
All Electric Range Unadjusted (miles)	13.748	**Equivalent All Electric Range (miles)**	8.543
Number of Charge Depleting Bags/Phases Conducted	3	**Transition Bag/Phase Number**	2

Charge Depleting Bag/Phase #1

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.372
Average System Voltage	363.16
CH4 - Methane	0
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.26
Drive Trace Energy Economy Rating	-0.05
Drive Trace Inertia Work Ratio Rating	0.44
Integrated Amp-hours	9.212
Manufacturer Fuel Economy	0
Nitrogen Oxide	0.0000524
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	9.21
System Start State of Charge Watt-hours	9.21
Total Hydrocarbon	0

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.419
Average System Voltage	342.89
CH4 - Methane	0.005
Carbon Monoxide	0.35
Carbon dioxide	370
Carbon-Related Exhaust Emissions	371
Drive Trace Absolute Speed Change Rating	0.92
Drive Trace Energy Economy Rating	0.23
Drive Trace Inertia Work Ratio Rating	1.35
Integrated Amp-hours	12.783
Manufacturer Fuel Economy	24
Nitrogen Oxide	0.0167971
Non-methane Hydrocarbon	0.021
Non-methane organic gases	0.0213723
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	3.58
System Start State of Charge Watt-hours	3.58
Total Hydrocarbon	0.025

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.411
Average System Voltage	343.16
CH4 - Methane	0.000492
Carbon Monoxide	0.36
Carbon dioxide	464
Carbon-Related Exhaust Emissions	465
Drive Trace Absolute Speed Change Rating	0.45
Drive Trace Energy Economy Rating	-0.6
Drive Trace Inertia Work Ratio Rating	0.62
Integrated Amp-hours	12.803
Manufacturer Fuel Economy	19.2
Nitrogen Oxide	0.001219
Non-methane Hydrocarbon	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	0.02
System Start State of Charge Watt-hours	0.02
Total Hydrocarbon	0

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**VVGA10094532**	**Test Procedure**	**84 - Charge Depleting Highway**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	61 - Tier 2 Cert Gasoline
Test Date	03/13/2026	**Fuel**	N/A
Fuel Batch ID	IG0058	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4555	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	239.6	**Recharge Event Energy (kiloWatt-hours)**	5.776
Charge Depleting Range (Calculated miles)	12.068	**Charge Depleting Range (Actual miles)**	12.068
Charge Depleting Range Highway (Calculated miles)	--	**Derived 5-Cycle Coefficient Model Year**	2017
All Electric Range Unadjusted (miles)	10.981	**Equivalent All Electric Range (miles)**	10.981
Number of Charge Depleting Bags/Phases Conducted	4	**Transition Bag/Phase Number**	2

Charge Depleting Bag/Phase #1

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.14
Average System Voltage	360.07
CH4 - Methane	0.000001
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.09
Drive Trace Energy Economy Rating	-0.75
Drive Trace Inertia Work Ratio Rating	-1.11
Integrated Amp-hours	10.556
Manufacturer Fuel Economy	0
Nitrogen Oxide	0
Non-methane Hydrocarbon	0.000144
Non-methane organic gases	0.000148
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	-10.556
System Start State of Charge Watt-hours	-10.556
Total Hydrocarbon	0

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.148
Average System Voltage	342.99
CH4 - Methane	0.002888
Carbon Monoxide	0.24
Carbon dioxide	319
Carbon-Related Exhaust Emissions	319
Drive Trace Absolute Speed Change Rating	-0.44
Drive Trace Energy Economy Rating	-0.73
Drive Trace Inertia Work Ratio Rating	-1.48
Integrated Amp-hours	12.561
Manufacturer Fuel Economy	27.9
Nitrogen Oxide	0.01014
Non-methane Hydrocarbon	0.016273
Non-methane organic gases	0.016761
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	-2.005
System Start State of Charge Watt-hours	-2.005
Total Hydrocarbon	0.019

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.134
Average System Voltage	345.27
CH4 - Methane	0.002493
Carbon Monoxide	0.15
Carbon dioxide	360
Carbon-Related Exhaust Emissions	360
Drive Trace Absolute Speed Change Rating	0.85
Drive Trace Energy Economy Rating	-1.08
Drive Trace Inertia Work Ratio Rating	0.23
Integrated Amp-hours	11.769
Manufacturer Fuel Economy	24.7
Nitrogen Oxide	0.000482
Non-methane Hydrocarbon	0.003734
Non-methane organic gases	0.003846
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	0.792
System Start State of Charge Watt-hours	0.792
Total Hydrocarbon	0.006

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.142
Average System Voltage	343.49
CH4 - Methane	0.004898
Carbon Monoxide	0.16
Carbon dioxide	301
Carbon-Related Exhaust Emissions	301
Drive Trace Absolute Speed Change Rating	-0.22
Drive Trace Energy Economy Rating	-1.09
Drive Trace Inertia Work Ratio Rating	-1.19
Integrated Amp-hours	12.522
Manufacturer Fuel Economy	29.5
Nitrogen Oxide	0.000196
Non-methane Hydrocarbon	0.011859
Non-methane organic gases	0.012215
Non-methane organic gases plus Nitrogen Oxides	999.999
System End State of Charge Watt-hours	-0.753
System Start State of Charge Watt-hours	-0.753
Total Hydrocarbon	0.016

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Emission Data Vehicle Information

Vehicle ID / Configuration	LB634_0060 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	TVGAV04.0LAC	**Original Evaporative/Refueling Family**	TVGAR0172LDA
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Lamborghini	**Represented Test Vehicle Model**	Temerario

Leak Family Details

Leak Family Identifier	001	**Leak Family Name**	TVGAR0172LDA-001

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	**Multiple Fuel Combustion**	--
Fuel Cell Indicator	No	**Rechargeable Energy Storage System Indicator**	Yes
Rechargeable Energy Storage System	Battery(s)	**Rechargeable Energy Storage System, if 'Other'**	--
Off-board charge Capable Indicator	No		
Odometer Correction -- Initial	0	**Odometer Correction Factor**	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Kilometers		
Engine Code	DZS	**Rated Horsepower**	788
Displacement (liters)	3.995		
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)	4328	**Equivalent Test Weight (pounds)**	4750
GVWR (lbs)	4793	**N/V Ratio**	29.9
Axle Ratio	2.55		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	**# of Transmission Gears**	8
Transmission Lockup	No	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA

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	47.66	0.5568	0.01981	4.07	0.0751	0.02108	16.7
Cold CO	52.43	0.6125	0.02179	-29.06	-0.0586	0.02364	N/A
US06	47.66	0.5568	0.01981	4.07	0.0751	0.02108	N/A

Emission Control Device Comments DFI/2CAC/2TC/2WR-HO2S/2TWC/2HO2S/2GPF correction required to change Off-board Charge Capable Indicator from "Yes" to "No" to accommodate EVCIS business rules.

Manufacturer Test Vehicle Comments correction required to change Off-board Charge Capable Indicator from "Yes" to "No" to accommodate EVCIS business rules.

Test #	**TVGA10092342**	**Test Procedure**	**23 - 2-day evap**
Exhaust Test # for this Evap Test	TVGA10092305	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/11/2025	**Fuel**	Gasoline
Fuel Batch ID	LB0020	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4691	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.211	--

Manufacturer Test Comments 2DBL MCT

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	0.2110	0.0030	0.214	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2110	0.003	0.214	0.500	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**TVGA10092344**	**Test Procedure**	**34 - Federal fuel 3-day evap**
Exhaust Test # for this Evap Test	TVGA10092304	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/18/2025	**Fuel**	Gasoline
Fuel Batch ID	LB0022	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4711	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.306	--

Manufacturer Test Comments 3DBL

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	0.3060	0.0067	0.313	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.3060	0.007	0.313	0.500	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**TVGA10091624**	**Test Procedure**	**24 - Federal fuel refueling test (ORVR)**
Exhaust Test # for this Evap Test	TVGA10091623	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/05/2025	**Fuel**	Gasoline
Fuel Batch ID	LB0020	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	AUDI AG Ingolstadt		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	7270	**Odometer Units**	K
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	--	**Road Speed Fan Usage**	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC (Hydrocarbon for Running Loss and ORVR)	0.057	--

Manufacturer Test Comments ORVR Non-Integrated System

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	0.057	0.005	0.06	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.057	0.005	0.06	0.20	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Test #	**TVGA10092343**	**Test Procedure**	**32 - Federal Fuel Running Loss**
Exhaust Test # for this Evap Test	TVGA10092304	**Test Fuel Type**	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/18/2025	**Fuel**	Gasoline
Fuel Batch ID	LB0022	**Fuel Calibration Number**	1
Vehicle Class	N/A	**DF Type**	EPA Assigned
Verify Test Lab ID	Automobili Lamborghini S.p.A.		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4722	**Odometer Units**	M
4WD Test Dyno	Yes	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

Manufacturer Test Comments Running Loss MCT

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-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0000	0.000	0.000	0.050	Pass

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Fuel Properties

Fuel Batch ID	**LB0022**	**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	06/24/2025	**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)	41.461	**Fuel Carbon Mass Fraction (E10)**	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	**Weight Fraction CO2**	--

Fuel Batch ID	**IG0058**	**Fuel Calibration Number**	**1**
Test Fuel Type	61 - Tier 2 Cert Gasoline	**Fuel Batch Calibration Date**	08/15/2025
Fuel Batch Calibration Effective Date	01/28/2026	**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**	0.744
Fuel Ethanol Volume Percent (%)	--	**Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)**	18421
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	**Fuel Carbon Mass Fraction (E10)**	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	**Weight Fraction CO2**	--

Fuel Batch ID	**LB0020**	**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	03/10/2025	**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 (%)	9.7	**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	**IG0057**	**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	07/16/2025	**Fuel Batch Calibration Ineffective Date**	--

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
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)	0.826	**Weight Fraction CO2**	--
Fuel Batch ID	**LB0024**	**Fuel Calibration Number**	**1**
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	**Fuel Batch Calibration Date**	04/23/2025
Fuel Batch Calibration Effective Date	04/25/2025	**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**	0.748
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)	41.5	**Fuel Carbon Mass Fraction (E10)**	0.826
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	**Weight Fraction CO2**	--

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA

Consolidated List of Standards

Exhaust Standards

Cert Region Federal
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Both
Standard Level Federal Tier 4 Bin 50
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	--	--	--	--	--	--	0.2700	999
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0062	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.000

Cert Region California + CAA Section 177 states
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Both
Standard Level California LEV-III ULEV50
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	--	--	--	--	--	--	0.1600	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0062	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.000

Cert Region California + CAA Section 177 states
Vehicle Class LDV/Passenger Car
Fuel Gasoline
Cert/In-Use Code Both
Standard Level California LEV-III ULEV50
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	--	--	--	--	--	--	0.1600	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0062	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 4 Bin 50
Fuel	Gasoline	**Test Procedure**	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.2700	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0026	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0011	0.010
150,000 miles	CO	--	--	--	--	--	--	0.1600	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0062	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 4 Bin 50
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	--	--	--	--	--	--	0.1600	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0062	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.000

Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-III ULEV50
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	--	--	--	--	--	--	0.1600	10.0

Certification Summary Information Report

Test Group VVGAV04.0LAC **Evaporative/Refueling Family** VVGAR0172LDA

Cert Region California + CAA Section 177 states **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **Standard Level** California LEV-III ULEV50
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	--	--	--	0.0062	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.000

Cert Region California + CAA Section 177 states **Cert/In-Use Code** Both
Vehicle Class LDV/Passenger Car **Standard Level** California LEV-III ULEV50
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	--	--	--	--	--	--	0.1600	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0062	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0047	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 4 Bin 50
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	--	--	--	--	--	--	0.1600	99.0
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0062	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	California LEV-III ULEV50
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	NMOG	--	--	1.1	--	--	--	--	99.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.100
4,000 miles	NOX	--	--	--	--	--	--	--	99.999

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDV/Passenger Car	**Standard Level**	Federal Tier 4 Bin 50
Fuel	Gasoline	**Test Procedure**	Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.1600	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0056	0.3

Evaporative/Refueling Standards

Evaporative/Refueling Family	VVGAR0172LDA	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-III Zero Evap (Option 2)
Test Procedure	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.007

Evaporative/Refueling Family	VVGAR0172LDA	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal fuel 3-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0067

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA

Evaporative/Refueling Family	VVGAR0172LDA	**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	VVGAR0172LDA	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-III Zero Evap (Option 2)
Test Procedure	Federal fuel refueling test (ORVR)		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0.005

Evaporative/Refueling Family	VVGAR0172LDA	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-III Zero Evap (Option 2)
Test Procedure	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.050	0.000

Evaporative/Refueling Family	VVGAR0172LDA	**Cert Region**	California + CAA Section 177 states
Cert/In-Use Code	Both	**Standard Level**	California LEV-III Zero Evap (Option 2)
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.003

Evaporative/Refueling Family	VVGAR0172LDA	**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	--	0.20	0.005

Certification Summary Information Report

Test Group	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
Evaporative/Refueling Family	VVGAR0172LDA	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0030

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA

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	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
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	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
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	VVGAV04.0LAC	**Evaporative/Refueling Family**	VVGAR0172LDA
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 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.

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	VVGAGPGNNLAC
Test Group	VVGAV04.0LAC
Evap Family	VVGAR0172LDA
Emission Control System:	DFI/2CAC/2TC/2WR-HO2S/2TWC/2HO2S/2GPF

Engine Displacement:	4.0 l
Valves per Cylinder:	4
Sales Area:	50 states
MMS:	MG1
SIL:	N/A

Engine Code	**Model**	Vehicle Class	**Engine Code Characteristics**			**HP @RPM**	**Torque @RPM [lb-ft]**	**# Trans Gears**	**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	**Compression ratio**	**Idle [rpm]**											
DZS	Temerario Coupe	LDV	634009	9.3 ± 0.2	850 ± 50	788HP @ 9000RPM	538 lb-ft @4000-7000 RPM	8	4750	4354	4793	18.0	172	F: 255/35 ZR20 R: 325/30 ZR21	29.9	N
	Temerario								5000	4586	5049	18.0	172			

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**
DQ800-8H	AWD	8	1- 8	n.a.	2.552	5.235	3.867	2.965	2.190	1.838	1.559	1.380	1.019

12.2 Test conditions

Model	ETW	Road Track Coefficients						TRL50	TCDT	Fan Pos.	Drive Mode for Testing	Shift Sched. I.D.	J1711 Version
		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				
Temerario Coupe	4750	47.66	0.5568	0.01981	212.00	1.5390	0.03402	16.7	17.8	20	Citta Hybrid	Automatic	Jun 2010
Temerario	5000	51.08	0.5615	0.02166	227.20	1.5520	0.03720	17.8	17.6	20	Citta Hybrid	Automatic	Jun 2010
Temerario	5000	51.08	0.5615	0.02166	227.20	1.5520	0.03720	17.8	17.6	20	Sport Ricarica	Automatic	Jun 2010

Vehicle Starting Procedure:
Turning on the ignition by sitting on the driver-seat or by pressing the “Stop/Start” button.
The vehicle will show “ON” in the instrument cluster.
To get the vehicle into “READY” the doors must be closed, and the seatbelts must be buckled.
By pressing the brake pedal and shifting the gear lever into ether R or D/B the car will switch into “READY”.

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

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

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

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

SAE Tested Version:
Vehicles in this test group were tested according to SAE J1711 ver. Jun 2010

Climate Control Settings:
22°C + Recirculation + max Fan-Speed + air vent on to driver

12.3 e-Motor Details

Model Name	Lamborghini Temerario
Engine Identification Number	Front: EBX Rear: EDY
Engine Management System	Front: TEXA DPIL-Y Rear: TEXA MPIL-Y
Nominal Voltage	355.2V
EBX (Front Axel)	
Transmission Arrangement (Parallel / Transaxial / Other)	Coaxial
Motor Maximum Speed	9000 rpm
Gearbox Outlet Shaft (gear engaged)	Direct drive
Direct Current (DC) / Alternating Current (AC) number of phases	Alternating Current (AC) / 3 phases
Maximum Net Torque (at zero speed) acc. to SAE J2907	320 Nm
Maximum Net Power	110 kW @ 3500 rpm
Maximum Net Torque	345 Nm @ 3000 rpm
Horsepower	147 HP @ 3500 rpm
EDY (Rear Axle)	
Transmission Arrangement (Parallel / Transaxial / Other)	Parallel
Motor Maximum Speed	10000 rpm
Gearbox Outlet Shaft (gear engaged)	Direct Drive
Direct Current (DC) / Alternating Current (AC) number of phases	Alternating Current (AC) / 3 phases
Maximum Net Torque (at zero speed) acc. to SAEJ2907	300 Nm
Maximum Net Power	110 kW @3500 rpm
Maximum Net Torque	300 Nm @3500 rpm
Horsepower	147 HP @ 3500 rpm
Combined	
Maximum Power (Boost)	677 kW @ 7500 rpm
Maximum Power	677 kW @ 7500 rpm
Maximum Power (Boost)	920 HP @ 7500 rpm
Maximum Torque (Boost)	900 Nm @ 5000 rpm
Maximum Torque	900 Nm @ 5000 rpm

12.4 Battery details

Battery Manufacturer	WEBASTO
Battery Type / Chemistry	LI-ION HV BATTERY NMC
Number of Battery Cells	768
Cell Design	Cylindrical
Number of Battery Modules	6
Battery Cathode	NMC
Battery Anode	Graphite
Electrolyte Type	Organic electrolyte, consisting of LiPF6, organic carbonates and additives
Total Weight of Battery System	91 kg
Nominal voltage	355.2.
Battery Working Voltage	310 V- 403 V
Total System Energy Capacity (Ah)	Gross: 20.4 Ah Net: 16.3 Ah
Energy Density (Whr/Kg)	80.33 Wh/kg
Battery Thermal Management	Liquid, water glycol

12.5 Charging details

Charging unit 1 for high-voltage battery

The charging unit converts the AC current from the charging connection to DC current. There is a 7.2 kW charging unit. The charging unit is in front of the vehicle under the subframe and can be accessed from above. The wipers and covers must be disassembled to remove the charging unit.

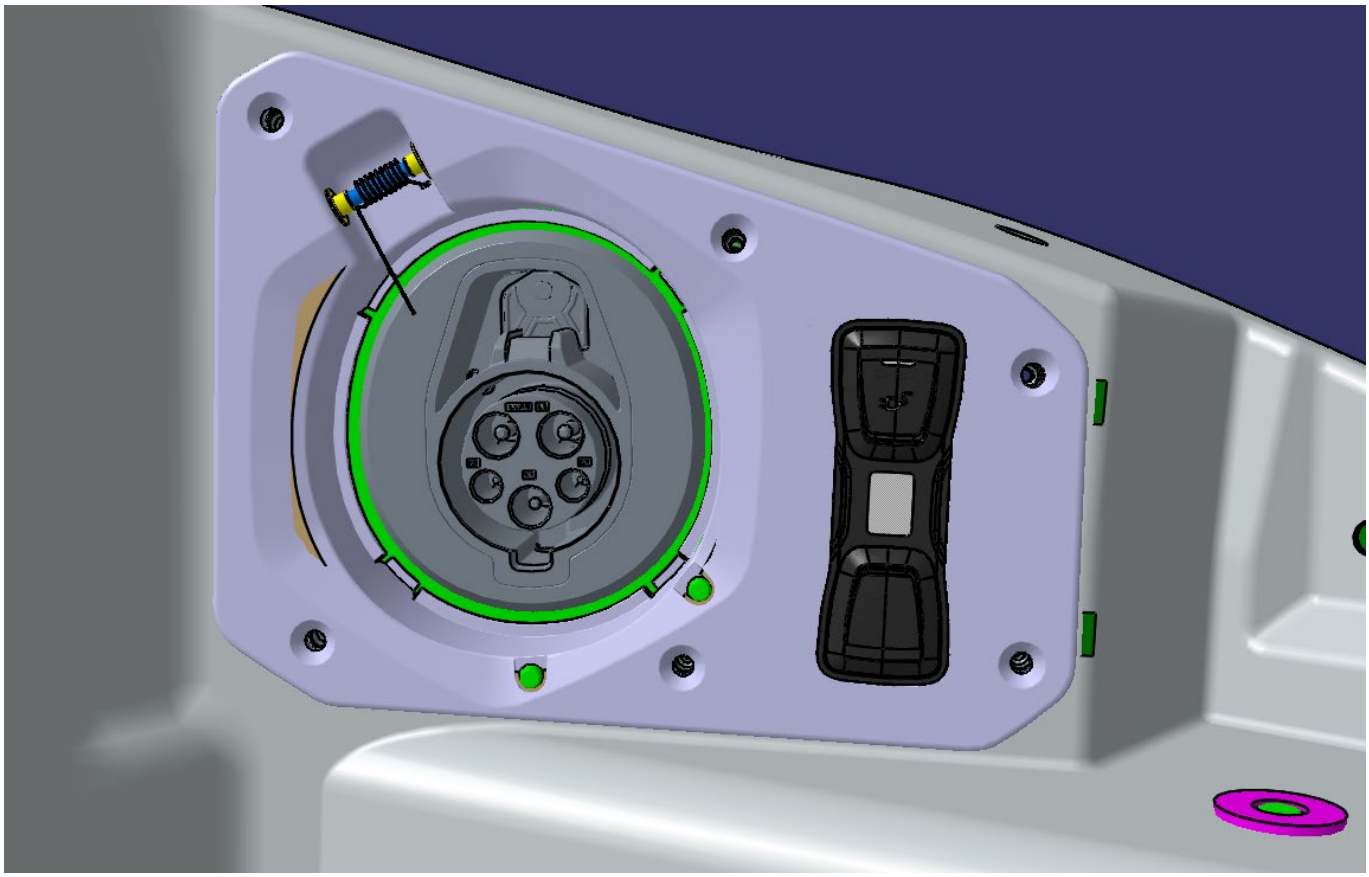
The charging unit itself is water-cooled. The conversion to direct current is performed via electrical isolation.

Input	100 V - 240 V 16 A - 32 A
Output	220 V - 500 V
Phases	1, 2-phase AC charging
Max. AC charging power	7.2 kW
Efficiency	94 %
Operating range	-40°C - 85°C
Weight	8 kg

The charging unit is regulated by control unit for high-voltage battery charging unit J1050. It monitors and regulates the charging process.
The following components are connected directly to charging unit 1 for high-voltage battery.

› Actuator for high-voltage charging flap lock.
› LED module for charging socket
› Actuator for high-voltage charging socket lock
› High-voltage battery charging socket
› Temperature sender for charging socket
› Temperature sender 2 for charging socket
› Temperature sender 3 for charging socket

High-voltage battery charging socket



AC

Connector (USA)	Type 1
Number of phases	1
Max. AC charging power	7.2 kW

There are different charging sockets for the different regions.

› China AC is used for AC
› EU AC is used for AC

Charging displays

Light on charging unit		Meaning
Green	Pulsating	Charging high-voltage battery
Yellow	Pulsating	Emergency charging mode active. Reduced charging power, fault
Green	Lit up	Charging process completed
Red	Lit up	Charging connector not locked, outside temperature too low or too high

Manual release mechanism for charging connector

If the charging connector cannot be unplugged from the vehicle charging connection, it must be released manually. To do this, the parking brake must be closed and the vehicle unlocked.

Note
For detailed information, please refer to the Owner's Manual.

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

14.0 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

15.0 Other Information

15.1 Revision Index

Sect No.	Date:	Comment:	R/C No.
Part 1			
All	06/12/2026	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: VVGAV04.0LAC
Models: Temerario
Evaporative Family: VVGAR0172LDA

RC / FF Number	Description of Change / Reason	Date

15.3 ORVR Safety Application for Carry-Over ORVR Systems

Volkswagen uses standard technology in all MY2027 vehicles ORVR systems. In accordance with EPA Guidance letter CISD-06-06, ORVR application will not be submitted.

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

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

June 04, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions Certification for Test Group VVGAV04.0LAC with Evaporative Family VVGAR0172LDA.

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
VVGAV04.0LAC	Tier 4 Interim Bin 50	Federal
	LEVIII ULEV50	California

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

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

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

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

Sincerely,

D'Ambrosi Anthony
VWPKI
5406C07D40F4331C

Digitally signed by D'Ambrosi Anthony VWPKI
5406C07D40F4331C
Date: 2026.05.21 14:30:16 -04'00'

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

Enclosure(s)

May 11, 2026 Reference No. E-26-095

Mr. Rob Sutschek, Vice President
Engineering and Environmental Office
Volkswagen Group of America, Incorporated
3800 Hamlin Road
Auburn Hills, Michigan 48326

Confidential

Subject: Volkswagen's (VW) On-Board Diagnostics II (OBD II) System Description for the 2027 Model Year (MY) Test Groups VVGAV04.0LAC and VVGAV06.5LAB

Dear Mr. Sutschek,

The California Air Resources Board's (CARB) On-Board Diagnostics Branch has received the OBD II system description submitted by VW for the 2027 MY test groups listed above. Representations made in the application indicate that the system is compliant with the OBD II regulation[1] except for SAE International (SAE) J1979-2 implementation for test group VVGAV06.5LAB. Therefore, CARB approves the 2027 MY system design with 1 deficiency for SAE J1979-2 implementation for test group VVGAV06.5LAB, and no deficiencies for test group VVGAV04.0LAC. Details of the SAE J1979-2 implementation deficiency were provided in a prior approval letter (Reference No. E-26-032).

Should you have questions or comments regarding this letter, please contact Mahfuz Rahman, Air Resources Engineer, at (951) 542-3355, or mahfuz.rahman@arb.ca.gov.

Sincerely,

Fredin R. Gurza For

Michael Regenfuss, Chief, On-Board Diagnostics Branch, Emissions Certification and Compliance Division

cc: Mahfuz Rahman, Air Resources Engineer, Emissions Certification and Compliance Division

[1] Unless otherwise noted, all regulation references are to title 13, California Code of Regulations, section 1968.2.

US EPA Fee Form

Help and EPA Instructions

* Required Field

General Information

Date: 06/09/2026

Process Code *

Submit Correction/Revision to Previous 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

Engine Family / Evaporative Family / Test Group *

VVGAV06.5LAC

Revised Engine Family / Evaporative Family / Test Group *

VVGAV04.0LAC

Original Payment Information

Payment Date *

02/23/2026

Amount Paid *

$32,317.00

Check#/Wire/ACH/Pay.gov Tracking Number *

27VRSFL2

Reason for Correction

Reason For Correction *

- (●) Typographical error in original Engine Family / Evaporative Family / Test Group
- ( ) Overpayment for original family name, please apply the overpayment to the revised Engine Family / Evaporative Family / Test Group
- ( ) Other (explain in comments box)

Comments

MY2027 Certification Fee incorrectly paid for VVGAV06.5LAC -- correct test group is VVGAV04.0LAC.
Pay.gov Tracking ID: 2833J0AI
Agency Tracking ID: 77413852785

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.

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

Anthony D'Ambrosi Name
Dir, Homologation Title
EEO – Certification Department
(248) 754-4396 Phone
Tony.DAmbrosi@vw.com E-Mail
June 04, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions Certification for Test Group VVGAV04.0LAC with Evaporative Family VVGAR0172LDA.

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
VVGAV04.0LAC	Tier 4 Interim Bin 50	Federal
	LEVIII ULEV 50	California

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

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

Sincerely,

D'Ambrosi Anthony
VWPKI
5406C07D40F4331C

Digitally signed by D'Ambrosi Anthony VWPKI
5406C07D40F4331C
Date: 2026.05.21 14:29:47 -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

17.2 Fill Pipe Specifications

Please refer to the Section 16

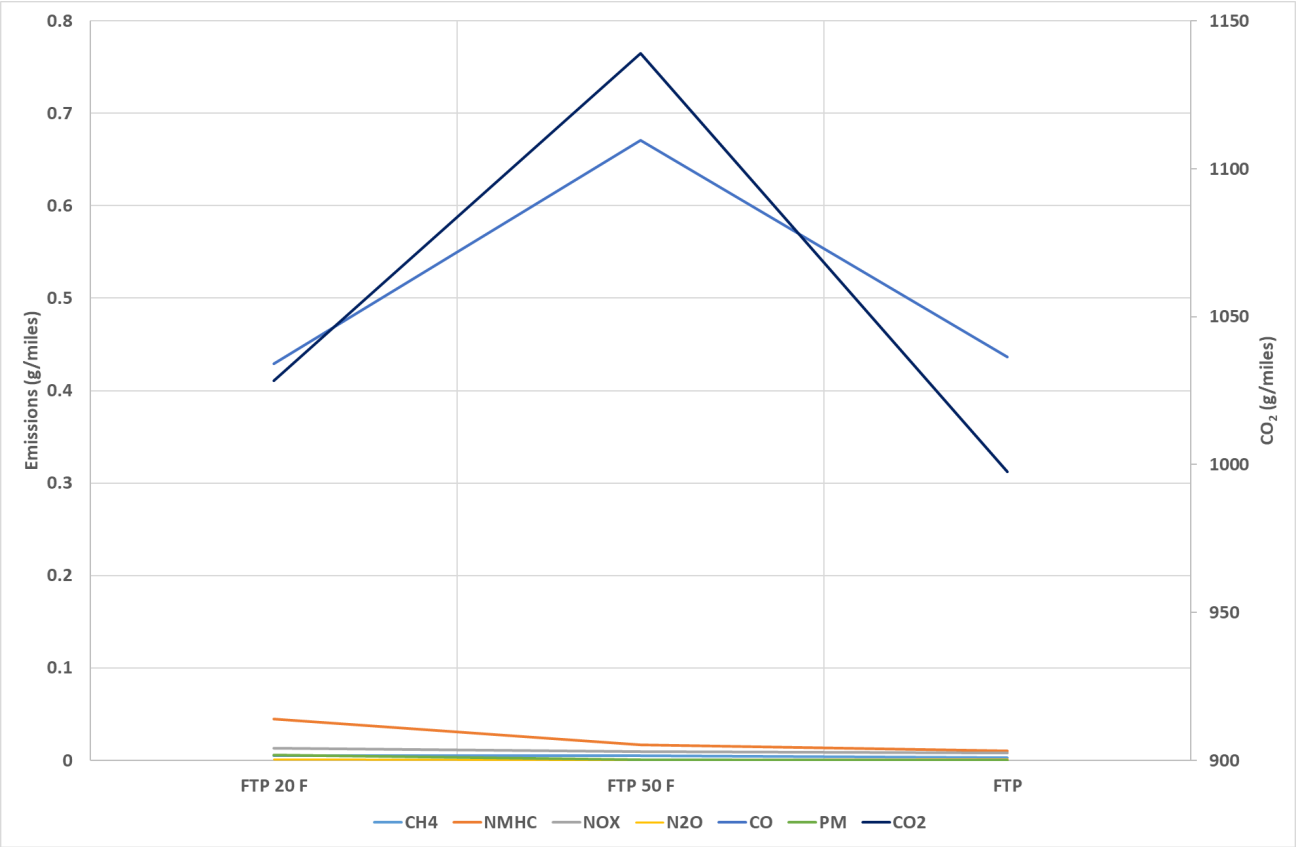
17.3 Evaporative Emission Deterioration Program

Please refer to Common Section Application

17.4 Assembly line NMOG / NMHC Factor

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

17.5 Continuity of Emissions



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	-	-	-	-	0.16	-	-	-
150k	-	0.0056*	0.0062	0.0047	0.16	0.0002	0.0000	0.0109

17.7 Recharging Procedures

Please refer to Section 12.5 Charging details

17.8 Climate Control System Description

Please refer to Section 16.7

17.9 Battery Specific Energy data and Calculations (C/3 energy capacity)

N/A

17.10 Vehicle and Battery Break-in

Volkswagen Group PHEVs are operated either on-track or on a mileage accumulation dynamometer for **4,000** miles using the Standard Road Cycle (SRC)

17.11 Proper and Safe Operation of the Vehicle

Please refer to Section 16.4

VWGoA has implemented a nationwide recycling program for the transportation and recycling of lithium ion (li-ion) batteries used to power full battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). The program is available to affiliate dealers.

Additionally, as part of the Alternative Fuel Vehicles Safety Training Program, VW Group vehicles have an extensive list of precautionary / safety related measures that can be found at the links below:

https://www.lamborghini.com/en-en/guide-for-emergency-responders

17.12 MCT Analysis: 2-day, 3-day, Running Loss

MCT Data Set	2-Day	3 Day	Running Loss
EPA Test Number	TVGA10092342	TVGA10092344	TVGA10092343
FEL diurnal g/mile	0.500	0.500	0.050
DF diurnal g/mile	0.003	0.007	0.000
Cert Level g/mile	0.214	0.313	0.000
Diurnal % of Std	**42.83%**	**62.55%**	**0.00%**

Original Data Set	2-Day	3 Day	Running Loss
EPA Test Number	TVGA10091606	TVGA10091605	TVGA10091607
FEL diurnal g/mile	0.500	0.500	0.050
DF diurnal g/mile	0.003	0.007	0.000
Cert Level g/mile	0.452	0.450	0.000
Diurnal % of Std	**90.30%**	**91.76%**	**0.43%**

*ORVR was under the <90% MCT threshold

21.0 Vehicle Emission Control Information Label

	Automobili LAMBORGHINI, S.p.A. VEHICLE EMISSION CONTROL INFORMATION
Conforms to regulations:	2027 MY
U.S. EPA: Bin50 PC OBD: CA II Fuel: Gasoline California: ULEV 50 PC OBD: CA II Fuel: Gasoline	
No adjustments needed.	DFI/2CAC/2TC/2WR-HO2S/2TWC/2HO2S/2GPF
Group: VVGAV04.0LAC Evap: VVGAR0172LDA	4LA010528*

21.2 Engine Control Module (ECM) Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	4LA907056B	M: 4LA056B 0001BVFK S: 4LA056B 0001BVKK	M: 6B 09 48 78 S: CE F0 6D 5A	

21.3 Transmission Control Module (TCM) Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	4LA927153C	4LA153C 00012VAA	E7 DE 41 E2	

21.4 Gateway Control Module Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	4KL907468AA	GW4KL468AA0062--	D7 10 20 C7	

21.5 Battery Energy Control Module (BECM) Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	4LA909452	4LA452 02002VAA	BC 7F B2 1D	Homologation
Temerario	DZS	4LA909452A	4LA452A 2012VAA	DB C6 7C 4A	SOP

21.6 Brake System Control Module Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	47B907379J	47B379J+FDD57D5A	FD D5 7D 5A	

21.7 Battery Charger Control Module (BCCM)

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	9Y0915681AE	9Y0681AE3336FUBD	59 8E EE 0A	Homologation
Temerario	DZS	9Y0915681AT	9Y0681AT3337FUBJ	FDD21B4C	SOP

21.8 Drive Motor Control Module 1 (DMCM 1) Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	4LA909103B	4LA103B 0001AVAA	79 B2 A1 E0	

21.10 Drive Motor Control Module 2 (DMCM 2) Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	0EQ909101B	0EQ101B 0003AVAA	64 7D F8 6C	

21.11 Thermo-Management Control Module (VTCM) Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	47B965429K	47B429L RUXA2255	EF 20 DB E1	

21.12 Electric AC Compressor (EKK) (Slave of VTCM) Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	80A.816.797.F	80A797F 00180014	60 EF E6 1B	Homologation
Temerario	DZS	80A.816.797.G	80A797G 00190015	11 11 C1 EF	SOP

21.13 DC/DC Converter Information

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	4M0907171E	4M0171E+0011ACH0	39 B0 BB D0	

21.14 EISB smart module

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	4LA.905.367.B	I4L81R-0634_LB36	00 00 FA 19	Homologation
Temerario	DZS	4LA.905.367.B	I4L81R-0634_LB38	00 00 2B A0	SOP

21.14 Battery Monitoring Control Module (BMCM)

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
Temerario	DZS	992915022H	992022H+10510000	A8 02 DD 45	Homologation
Temerario	DZS	992915022J	992022J+10510000	AD 07 B5 68	SOP