

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

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

Dear Seong Hun Kim

Attached is your final 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

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

Dear Seong Hun Kim

Attached is documentation for your MS Fee payment for Invoice Name 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



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
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Total Corrected	\$ 201,236.00
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Total Due	\$ 0.00
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Notes
Changed UID for Row 2 from VVGAV06.5LAC to VVGAV04.0LAC.

I, [Tony D'Ambrosi](#), 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

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Section 10	Description of Alternate-fueled Vehicles
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Section 16	Confidential Information
Section 17	California ARB Information

1. **Correspondence and Communication**

Please refer to the Common Section

2. Durability Group Description

Durability Source Basics	
Durability Procedure	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	07/10/2026 03:38:21 PM
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								
	<table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Gasoline</td><td>Spark Ignition Direct fuel injection</td><td>No</td></tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Gasoline	Spark Ignition Direct fuel injection	No		
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Gasoline	Spark Ignition Direct fuel injection	No							
Drive Source #2:	Electric Motor								
	<table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Electricity</td><td>--</td><td>No</td></tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Electricity	--	No		
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	07/13/2026	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 OBD on UDS 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)	Gasoline, Electricity
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	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	476 - Temerario	Federal	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 VARIABLE 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
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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
Electricity	VVGA10094441	VVGA10094415	VVGA10094432	VVGA10094420	VVGA10094408	--	--	--	--	--
Gasoline	VVGA10094441	VVGA10094415	VVGA10094432	VVGA10094420	VVGA10094408	6.4	7.1	8.9	8.5	--

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
Gasoline	VVGA10094471	VVGA10094532
Electricity	VVGA10094471	VVGA10094532

Hybrid Electric Vehicle And Fuel Cell Information

Rechargeable Energy Storage System	Battery(s)	Rechargeable 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
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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
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	VVGAR0172LDA-001
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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 equipped	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	Creep Gear	No

Certification Summary Information Report

Test Group		VVGAV04.0LAC			Evaporative/Refueling Family		VVGAR0172LDA	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	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			

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))	10.991	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.58	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1181.9482608	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.23	--	
FE BAG 1 (Bag 1 Fuel Economy)	7.34	7.34	
CH4 BAG 1 (Bag 1 Methane)	0.02222	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.23649	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.23567	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-363.01	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.83	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	1125.9736672	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.24	--	
FE BAG 2 (Bag 2 Fuel Economy)	7.71	7.71	
CH4 BAG 2 (Bag 2 Methane)	0.00113	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-464.81	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.58	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	729.1755808	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.19	--	
FE BAG 3 (Bag 3 Fuel Economy)	11.91	11.91	
CH4 BAG 3 (Bag 3 Methane)	0	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-308.96	--	
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	

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA									
	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	--									
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 \ Test 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 3 Bin 50	CO	0.43	--	--	--	0.1600	--	0.6	10.0	Pass
Fed	120,000 miles	Federal Tier 3 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/NM HC 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	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.62	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1197.9301733	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.86	--	
FE BAG 1 (Bag 1 Fuel Economy)	7.3	7.3	
CH4 BAG 1 (Bag 1 Methane)	0.01086	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.05549	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-371.97	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.87	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	1321.5839586	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.55	--	
FE BAG 2 (Bag 2 Fuel Economy)	6.62	6.62	
CH4 BAG 2 (Bag 2 Methane)	0.00236	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-514.86	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.61	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	679.4219064	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.29	--	
FE BAG 3 (Bag 3 Fuel Economy)	12.88	12.88	
CH4 BAG 3 (Bag 3 Methane)	0	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-324.47	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.87	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	909.1293691	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.19	--	
FE BAG 4 (Bag 4 Fuel Economy)	9.63	9.63	
CH4 BAG 4 (Bag 4 Methane)	0.00004	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	-544.93	--	
METHANE (CH4 - Methane)	0.0027916	--	
CO (Carbon Monoxide)	0.436289	--	

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA
	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 \ Test 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	120,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.2700	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0028	--	--	--	0.0026	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	N2O	0.0009	--	--	--	0.0011	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.44	--	--	--	0.1600	--	0.6	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.81	--	--	--	--	--	0.8	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0105	--	1.1	--	0.0062	--	0.017	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0184	--	--	--	--	--	0.029	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0286	--	--	--	--	--	0.029	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0079	--	--	--	0.0047	--	0.013	99.000	Pass
Fed	150,000 miles	Federal Tier 3 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 3 Bin 50	CREE	741	--	--	--	0.2700	--	741	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0010	--	1.0300	--	0.0062	--	0.007	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0027	--	--	--	--	--	0.014	0.050	Pass
Fed	150,000 miles	Federal Tier 3 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			

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))	8.014	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.78	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	1124	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.21068	--	
FE BAG 1 (Bag 1 Fuel Economy)	7.79	7.79	
CH4 BAG 1 (Bag 1 Methane)	0.00213	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-26.96	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.24	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	836.6	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.74452	--	
FE BAG 2 (Bag 2 Fuel Economy)	10.45	10.45	
CH4 BAG 2 (Bag 2 Methane)	0.00419	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.00098	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-375.68	--	
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	--	

Certification Summary Information Report

Test Group		VVGAV04.0LAC				Evaporative/Refueling Family				VVGAR0172LDA		
		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 Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.63	--	--	--	0.1600	--	0.8	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0007	--	1.0300	--	0.0062	--	0.007	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0057	--	--	--	0.0047	--	0.010	99.000	Pass
Fed	150,000 miles	Federal Tier 3 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/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.86	--	--	--	0.1600	--	1.0	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0119	--	1.0300	--	0.0062	--	0.018	99.000	Pass
Fed	150,000 miles	Federal Tier 3 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																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.134</td></tr><tr><td>Average System Voltage</td><td>345.27</td></tr><tr><td>CH4 - Methane</td><td>0.002493</td></tr><tr><td>Carbon Monoxide</td><td>0.15</td></tr><tr><td>Carbon dioxide</td><td>360</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>360</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.85</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.08</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>0.23</td></tr><tr><td>Integrated Amp-hours</td><td>11.769</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.7</td></tr><tr><td>Nitrogen Oxide</td><td>0.000482</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0.003734</td></tr><tr><td>Non-methane organic gases</td><td>0.003846</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>0.792</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>0.792</td></tr><tr><td>Total Hydrocarbon</td><td>0.006</td></tr></table>	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	
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Charge Depleting Bag/Phase #4																																								

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA																																						
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.142</td></tr><tr><td>Average System Voltage</td><td>343.49</td></tr><tr><td>CH4 - Methane</td><td>0.004898</td></tr><tr><td>Carbon Monoxide</td><td>0.16</td></tr><tr><td>Carbon dioxide</td><td>301</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>301</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.22</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.09</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-1.19</td></tr><tr><td>Integrated Amp-hours</td><td>12.522</td></tr><tr><td>Manufacturer Fuel Economy</td><td>29.5</td></tr><tr><td>Nitrogen Oxide</td><td>0.000196</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0.011859</td></tr><tr><td>Non-methane organic gases</td><td>0.012215</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>-0.753</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>-0.753</td></tr><tr><td>Total Hydrocarbon</td><td>0.016</td></tr></table>			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
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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												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> <tr> <td>2</td><td>Combustion Engine</td><td>Gasoline</td></tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline
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	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 equipped	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	Creep Gear	No									

Certification Summary Information Report

Test Group	VVGAV04.0LAC	Evaporative/Refueling Family	VVGAR0172LDA
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	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

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)						
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									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC (Hydrocarbon for Running Loss and ORVR)</td> <td>0.057</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC (Hydrocarbon for Running Loss and ORVR)	0.057	--
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	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	--
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	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	--

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	0.744
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	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			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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			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 3 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 3 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
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

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			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			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		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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			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	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

Cert Region	Federal				Cert/In-Use Code			Both	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 50	
Fuel	Gasoline				Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.2700	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

Evaporative/Refueling Standards

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		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		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		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		
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		

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		
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		

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, NO_x, N₂O, CH₄, 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, NO_x, N₂O, CH₄ 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 CISC-09-19, all driver-selectable transmission drive modes are deemed to comply with emission standards.

9.0 OBD System Description

9.1 Summary Table

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

9.2 California Air Resources Board OBD System Approval Letter.

Refer to Section 16

10. Description of Alternate Fueled Vehicles

Not applicable

11. Auxiliary Emission Control Devices (AECD) Descriptions

Refer to Section 16.2 of this Application

12.0 List of Certified Vehicles

Durability Group	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
	lbs	F0 lb*f	F1 lb*f/mph	F2 lb*f/(mph) ²	F0 N	F1 N/(km/h)	F2 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 Axle)	
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 LiPF ₆ , 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.

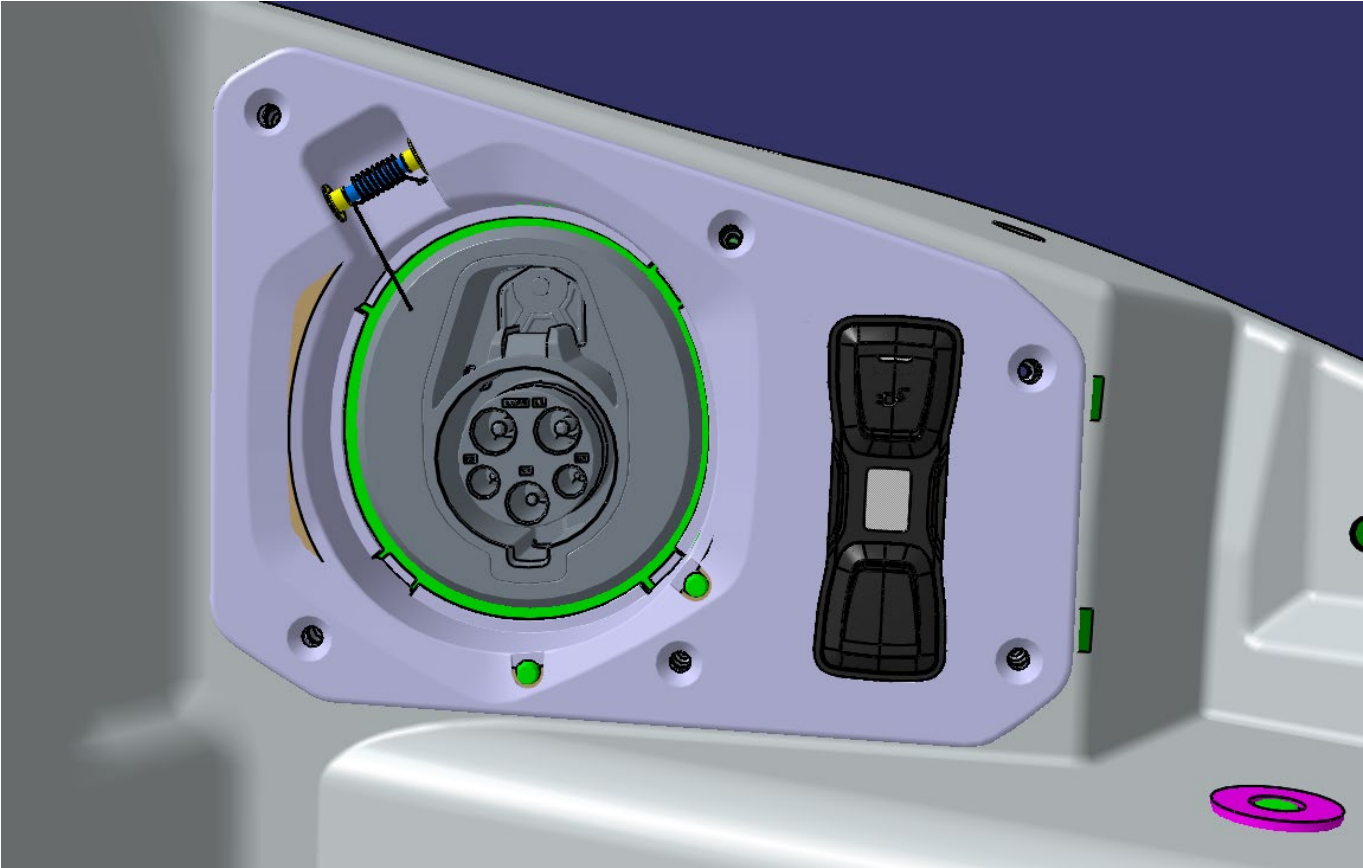
Input	100 V - 240 V
	16 A - 32 A
Output	220 V - 500 V
Phases	1, 2-phase AC charging
Max. AC charging power	7.2 kW
Efficiency	94 %
Operating range	-40°C - 85°C
Weight	8 kg

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

[illegible]

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

[illegible]

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 CISC-06-06, ORVR application will not be submitted.

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

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

June 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:

<u>Test Group</u>	<u>Standards</u>	<u>Sales Area</u>
VVGAV04.0LAC	Tier 4 Interim Bin 50 LEVIII ULEV50	Federal 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

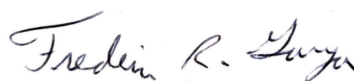
Subject: Volkswagen's (VW) On-Board Diagnostics II (OBD II) System Description for the
2027 Model Year (MY) Test Groups VVGAV04.0LAC and VVGAV06.5LAB

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 regulation¹ 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,

 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.

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

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

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

<u>Test Group</u>	<u>Standards</u>	<u>Sales Area</u>
VVGAV04.0LAC	Tier 4 Interim Bin 50 LEVIII ULEV 50	Federal 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

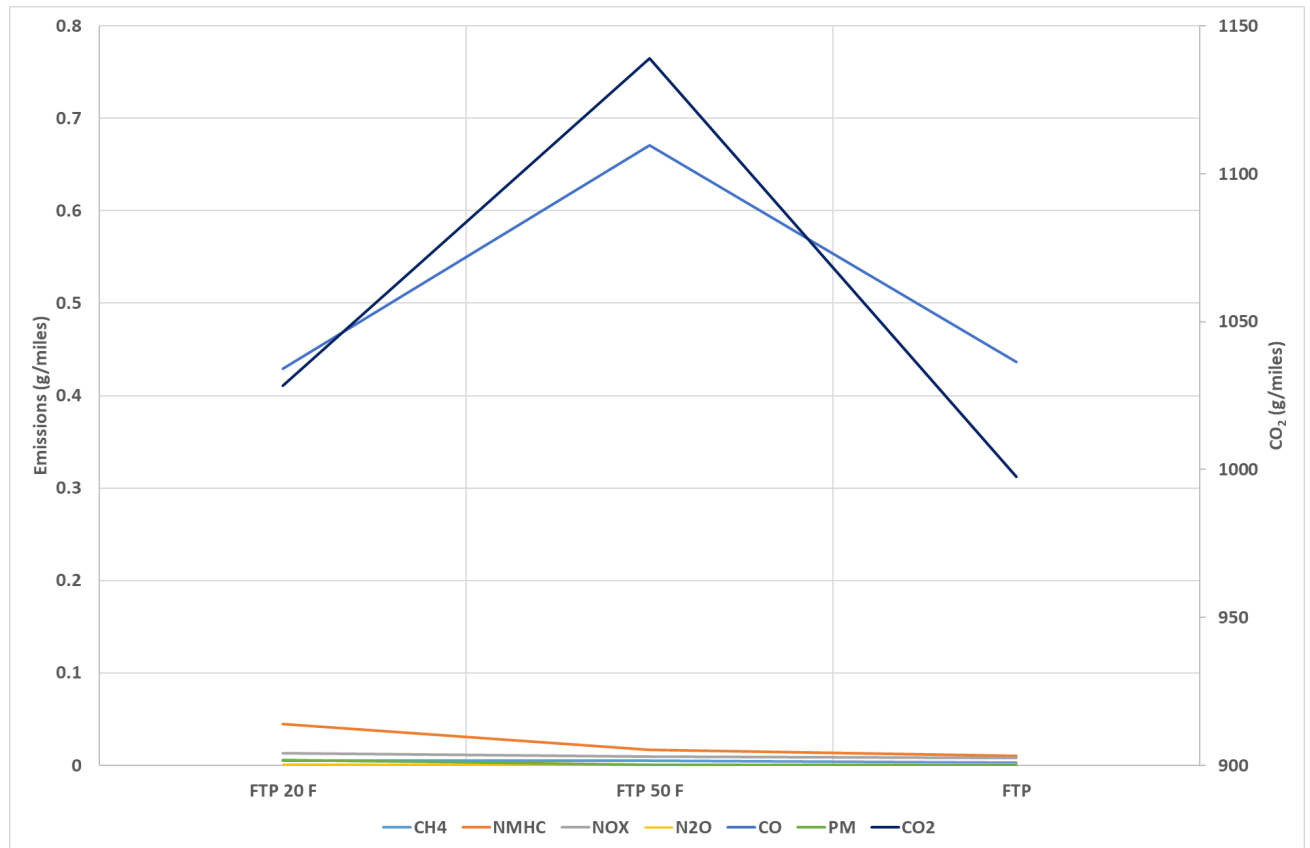
17.3 Evaporative Emission Deterioration Program

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)	NO _x (g/mi)	CO (g/mi)	HCHO (mg/mi)	PM (g/mi)	NMOG+NO _x (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:		<u>2027 MY</u>
U.S. EPA: <u>Bin50 PC</u>	OBD: <u>CA II</u>	Fuel: <u>Gasoline</u>
California: <u>ULEV 50 PC</u>	OBD: <u>CA II</u>	Fuel: <u>Gasoline</u>
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