

## Kim, Seong Hun

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**From:** noreply@salesforce.com on behalf of California Air <mcertfees@arb.ca.gov>  
**Sent:** Wednesday, March 11, 2026 10:48 AM  
**To:** Kim, Seong Hun  
**Subject:** [From: External] MS Fee Payment Confirmation for Invoice MSF250739  
**Attachments:** MSF250739 - 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 MSF250739. 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 – 25RA0325
2. Date of Payment – 3/10/2026
3. Payment Status - Paid



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

**CARB USE ONLY**

<b>Invoice Name</b>	MSF250739
<b>Invoice Date</b>	Jan 27, 2026

**COMPANY INFORMATION**

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

**APPLICATION INFORMATION**

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	VW_Taos	Model Year 2027	VVGAJ01.5V2L	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
2	VW_Jetta GLI	Model Year 2027	VVGAV02.0V3A	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
3	VW_Golf R,GTI	Model Year 2027	VVGAV02.0V7B	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
4	VW_Jetta	Model Year 2027	VVGAV01.5V2Q	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00

<b>Total Due</b>	\$ 201,236.00
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I, Tony D'Ambrosi, Tony D'Ambrosi (Jan 27, 2026 14:25:46 EST), attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)



Volkswagen, a member of the Volkswagen Group

### Application for Emissions Certification

### 2027 Model Year

**Durability Group:** VVGAGPGNNV3A  
**Evap Family:** VVGAR0139VCA

### Test Group: VVGAV02.0V3A

**Certificate Number:** VVGAV02.0V3A -XXX

**Durability Group Description:** Four Stroke, Otto Cycle, Gasoline Fueled, Direct Fuel Injection, Catalyst Code: UTC1005

**Test Group Description:** 2.0L CAC/DFI/AIR/TC/WR-HO2S/TWC(2)/HO2S

**Applicable Exhaust Standards:** 50 State

Federal: Tier 4 Interim Bin 30  
California: LEVIII SULEV 30

**Applicable Evaporative Standards:** 50 State

Federal: Tier 3    FEL: 300 mg  
California: LEVIII    FEL: 300 mg

**Carlines Covered:** GLI

#### Vehicles Tested:

VID	Config.	Test Type / #	Test Type / #
LM000001	0	FTP / LVGA10059565	HFET / LVGA10059566
		US06 / LVGA10059567	SC03 / LVGA10059568
		Cold CO / LVGA10059572	50° FTP / LVGA10059569
		FTP / LVGA10059570	HFET / LVGA10059571
VW38003-0082	0	2-Day / PVGA10074775	
		ORVR / PVGA10074778	Running Loss / PVGA10074779
		BETP / PVGA10074777	3-Day / PVGA10074776

Issue Date: 03/10/2026

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

## **Table of Contents**

Section 01	Correspondence and Communications
Section 02	Durability Group Description
Section 03	Evaporative/Refueling Family Description
Section 04	Durability Procedure Description
Section 05	Test Group Description
Section 06	Test Vehicle Description
Section 07	Test Results
Section 08	Emission Testing Waiver Statements
Section 09	OBD System Description
Section 10	Description of Alternate-fueled Vehicles
Section 11	AECD Description
Section 12	Description of vehicles covered by certificate and test parameters
Section 13	Projected Sales
Section 14	Request for Certificate
Section 15	Other Information
Section 16	Confidential Information
Section 17	California ARB Information

## 1. **Correspondence and Communication**

Please refer to the Common Section

## 2. Durability Group Description

<b>Durability Source Basics</b>	
Durability Procedure	VW/Audi ADP
Durability Group Name	VVGAGPGNNV3A
Source of Durability Data	UA-206
Relation Factor BAT VWADP / BAT SRC	2.2
Engine Type	Piston
Combustion Method	Otto cycle 4 stroke
Fuel Used	Gasoline
Basic Fuel Metering System	Direct Injection
Displacement [l]	2.0

<b>Catalyst / After treatment device specifics</b>		
	<b>Durability Group Statistics</b>	<b>Durability Data Vehicle</b>
Catalyst Construction	Monolith	Monolith
Precious Metal Composition TWC	Pd/Rh	Pd/Rh
PTOX TWC	n.a.	n.a.
NAC:1 SCRC: 2	n.a.	n.a.
Total Catalyst Volume [l]	n.a.	2.73
Total Precious Metal Loading [g]	n.a.	9.70
Precious Metal Load Rate PM [g] / CV [l]	n.a.	3.55
Cat. Grouping Statistic	4.9	4.9
Durability Group Limit (25% or 0.2 g/l)	3.6	3.6
Test Group Covered	VVGAV02.0V3A	VVGAV02.0V3A

### 3. Evaporative / Refueling Family Description

		<b>C/O – BETP VW38003-0082</b>	
Evaporative / Refueling Family Name		PVGAR0139VCA	VVGAR0139VCA
Vapor storage device	Canister	Yes	Yes
	Other	-	-
Basic canister design	Working Capacity (g)	139	139
	Bed Volume (cm <sup>3</sup> )	2230	2230
	Number, config.	1	1
	Geometry	Cylinder	Cylinder
	Construction	2-chamber	2-chamber
	Bleeding trap	Yes	Yes
	Bleed trap Working Capacity (g)	4	4
	Material	Plastic	Plastic
Fuel System		DFI	DFI
Type of refueling system	Integrated	Yes	Yes
	Non-integrated	-	-
	Other	-	-
Fill pipe seal mechanism	Liquid seal	Yes	Yes
	Mechanical Seal	-	-
	Other	-	-
Method of controlling vapor flow to the engine	Vacuum	-	-
	Purge valve	Yes	Yes
	Other	fuel Level ventilation valve	fuel Level ventilation valve
Purge control system	Valve type	Duty Cycle	ECM
	Control	ECM	ECM
Vapor hose material	4 / multi-layer hose	Yes	Yes
	Stainless Steel	-	-
	Alloy	-	-
Fuel tank material	Metal	-	-
	Plastic	Yes	Yes
	Other	-	-
Test groups combined with this Evap. family		PVGAV02.0V3A PVGAV02.0V7B	VVGAV02.0V3A VVGAV02.0V7B

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

Please refer to the Common Section

## **5.0 Test Group Description**

Evap. Family: VVGAR0139VCA

Test Group Name: VVGAV02.0V3A

Certificate Number: VVGAV02.0V3A -XXX

Engine displacements covered: 2.0 Liters

Arrangement and number of cylinders: I4 transverse

Vehicle class(es) covered: LDV

Federal Emissions Standards Class: Tier 4 Interim Bin 30

California Emissions Standards Class: LEVIII SULEV30

## **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: VVGAV02.0V3A -XXX

Models: GLI

Test Group: VVGAV02.0V3A

Evaporative/Refueling Family: VVGAR0139VCA

<b>VID</b>	<b>Config.</b>	<b>Vehicle Type</b>	<b>Tests Performed</b>
LM000001	0	EDV	FTP, HWY, US06, SC03, Cold FTP, 50deg FTP
VW38003-082	0	Evap	3Day Evap, 2Day Evap, Running Loss, ORVR, BETP
VW371060033	0	FEDV	FTP, HWY, US06, SC03, Cold FTP

## **7. Test Results**

Please refer to the Certification Summary Information Report.



## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	03/10/2026 09:55:21 AM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	HDPE				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	No	<b>Air Intake System Vapor Storage Device Description</b>	--				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	139	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	1	<b>Bleed Canister Total Working Capacity (grams)</b>	4				
<b>Mfr Evaporative/Refueling Family Comments</b>	--						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	Yes						
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>				
VVGAR0139VCA-001	50 State	0.02	--				
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
Volkswagen Group of America, Inc.	1 - Volkswagen	221 - GLI	California + CAA Section 177 states	2-Wheel Drive, Front	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
Volkswagen Group of America, Inc.	1 - Volkswagen	221 - GLI	Federal	2-Wheel Drive, Front	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	No
<b>Engine Description</b>							
<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--				
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--				
<b>Engine Block Arrangement</b>	Inline	<b>Mfr Engine Block Arrangement Description</b>	--				
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	0W20 VW50800				
<b>Number of Cylinders/Rotors</b>	4	<b>Mechanically Variable Compression Ratio Indicator</b>	N				

## Certification Summary Information Report

Test Group		VVGAV02.0V3A			Evaporative/Refueling Family		VVGAR0139VCA									
<b>After Treatment Device(s) (ATD)</b>																
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction								
1		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
2		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
<b>Mfr After Treatment Device (ATD) Comments</b>																
--																
<b>Direct Ozone Reduction (DOR) Device</b>																
Not Equipped																
<b>Mfr Emission Control Device Comments</b>																
--																
<b>Engine Configuration Number 1</b>																
<b>Engine Displacement (liters)</b>		2.0			<b>Engine Rated Horsepower</b>		228									
<b>Number of Inlet Valves Per Cylinder</b>		2			<b>Number of Exhaust Valves Per Cylinder</b>		2									
<b>Air Aspiration Method</b>		Turbocharged			<b>Number of Air Aspiration Devices</b>		1									
<b>Air Aspiration Device Configuration</b>		Single			<b>Charge Air Cooler Type</b>		Air									
<b>Air Aspiration Drive Method(s)</b>		Mechanical														
<b>Cylinder Deactivation</b>		No														
<b>Cylinder Deactivation Description</b>		--														
<b>Variable Valve Timing</b>		Yes														
<b>Variable Valve Timing System Description</b>		CONTINUOUSLY VARIABLE VALVE TIMING														
<b>Variable Valve Lift?</b>		Yes														
<b>Variable Valve Lift System Description</b>		AUDI VALVE LIFT SYSTEM														
<b>Number of Knock Sensors</b>		1			<b>Number of Air/Fuel Sensors</b>		2									
<b>Air/Fuel Sensor # 1 Type</b>		Heated oxygen			<b>Air/Fuel Sensor # 1 Description</b>		--									
<b>Air/Fuel Sensor # 2 Type</b>		Heated oxygen			<b>Air/Fuel Sensor # 2 Description</b>		--									
<b>Mfr Air/Fuel Sensor Comments</b>		--														
<b>Exhaust Gas Recirculation</b>		Yes			<b>Cooled Exhaust Gas Recirculation</b>		No									
<b>EGR Type</b>		Variable Valve Timing Control			<b>Exhaust Gas Recirculation Description if 'Other'</b>		--									
<b>Closed Loop Air Injection System</b>		No														
<b>Air Injection Type</b>		Secondary Air Injection			<b>Air Injection Type if 'Other'</b>		--									
<b>Mfr Engine Configuration Comments</b>		Applies to DXSA var: 0														
<b>Official Test Numbers</b>																
Test Group		FTP		US06		SC03		Cold CO		Highway		EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		LVGA10059565		LVGA10059567		LVGA10059568		LVGA10059572		LVGA10059566		21.6	228.2	31.6	286.1	--

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>SFTP LEV-III Official Test Numbers</b>			
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>
Gasoline	LVGA10059565	LVGA10059567	LVGA10059568

## Certification Summary Information Report

Test Group	VVGAV02.0V3A	Evaporative/Refueling Family	VVGAR0139VCA						
<b>Emission Data Vehicle Information</b>									
Vehicle ID / Configuration	LM000001 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	LVGAJ02.0V3A	Original Evaporative/Refueling Family	LVGAR0135ACT						
Original Test Vehicle Model Year	2020								
<b>Vehicle Model</b>									
Represented Test Vehicle Make	VOLKSWAGEN	Represented Test Vehicle Model	Tiguan AWD						
<b>Leak Family Details</b>									
Leak Family Identifier	--	Leak Family Name	--						
<b>Drive Sources and Fuel System Details</b>									
	<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>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	11	Odometer Correction Factor	1						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	DGUA	Rated Horsepower	186						
Displacement (liters)	2								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Equipped, not shifted by SIL	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4235	Equivalent Test Weight (pounds)	4500						
GVWR (lbs)	5379	N/V Ratio	29.5						
Axle Ratio	3.53								
Transmission Type	Semi-Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creeper Gear	No						

## Certification Summary Information Report

Test Group	VVGAV02.0V3A			Evaporative/Refueling Family			VVGAR0139VCA
<b>Dynamometer Coefficients:</b>							
	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	40.331	0.60045	0.021301	11.537	0.31781	0.022593	16.5
Cold CO	44.364	0.6605	0.023431	12.691	0.34959	0.024853	N/A
US06	40.331	0.60045	0.021301	11.537	0.31781	0.022593	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	Tiguan AWD EDV Tiguan AWD tested as a Tiguan 4 dr. SUV - ETW: 4500						

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059565</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/14/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T31018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4709	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	383.7	--
FE BAG 1 (Bag 1 Fuel Economy)	22.5	22.5
CO2 BAG 2 (Bag 2 Carbon Dioxide)	407.3	--
FE BAG 2 (Bag 2 Fuel Economy)	21.2	21.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	344.5	--
FE BAG 3 (Bag 3 Fuel Economy)	25.1	25.1
METHANE (CH4 - Methane)	0.0028	--
CO (Carbon Monoxide)	0.101	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.91	--
DT-EER (Drive Trace Energy Economy Rating)	0.62	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.16	--
HCHO (Formaldehyde)	0.0002	--
MFR FE (Manufacturer Fuel Economy)	22.5	22.5
NOX (Nitrogen Oxide)	0.0092	--
N2O (Nitrous Oxide)	0.001	--
HC-NM (Non-methane Hydrocarbon)	0.007	--
NMOG (Non-methane organic gases)	0.0077	--
PM (Particulate Matter)	0.002	--
HC-TOTAL (Total Hydrocarbon)	0.0097	--



## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059569</b>	<b>Test Procedure</b>	<b>52 - Fed. fuel 50 F exh.</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/16/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T31018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4805	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	402.5	--
FE BAG 1 (Bag 1 Fuel Economy)	21.4	21.4
CO2 BAG 2 (Bag 2 Carbon Dioxide)	378.3	--
FE BAG 2 (Bag 2 Fuel Economy)	22.9	22.9
CO2 BAG 3 (Bag 3 Carbon Dioxide)	333.7	--
FE BAG 3 (Bag 3 Fuel Economy)	25.9	25.9
METHANE (CH4 - Methane)	0.0047	--
CO (Carbon Monoxide)	0.217	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.59	--
DT-EER (Drive Trace Energy Economy Rating)	0.47	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.58	--
HCHO (Formaldehyde)	0.0004	--
MFR FE (Manufacturer Fuel Economy)	23.3	23.3
NOX (Nitrogen Oxide)	0.0083	--
N2O (Nitrous Oxide)	0.001	--
HC-NM (Non-methane Hydrocarbon)	0.0123	--
NMOG (Non-methane organic gases)	0.0135	--
HC-TOTAL (Total Hydrocarbon)	0.0168	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	371	--

## Certification Summary Information Report

Test Group		VVGAV02.0V3A		Evaporative/Refueling Family				VVGAR0139VCA				
Manufacturer Test Comments		EDV 50deg FTP 4k FED. FUEL 50°F FTP - Tested as VOLKSWAGEN Tiguan SUV 4 dr. EDV - ETW: 4500										
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 SULEV30	CO	0.22	--	--	--	--	--	0.2	1.0	Pass
CA	4,000 miles	California LEV-III SULEV30	NMOG	0.0135	--	1.10	--	--	--	0.014	99.000	Pass
CA	4,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0218	--	--	--	--	--	0.022	0.060	Pass
CA	4,000 miles	California LEV-III SULEV30	NOX	0.0083	--	--	--	--	--	0.008	99.000	Pass

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059570</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	05/31/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T20219	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4938	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	374.2	--
FE BAG 1 (Bag 1 Fuel Economy)	23.6	23.6
CO2 BAG 2 (Bag 2 Carbon Dioxide)	365.1	--
FE BAG 2 (Bag 2 Fuel Economy)	24.3	24.3
CO2 BAG 3 (Bag 3 Carbon Dioxide)	325.3	--
FE BAG 3 (Bag 3 Fuel Economy)	27.2	27.2
METHANE (CH4 - Methane)	0.0023	--
CO (Carbon Monoxide)	0.165	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.42	--
DT-EER (Drive Trace Energy Economy Rating)	0.79	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.75	--
HCHO (Formaldehyde)	0.0001	--
MFR FE (Manufacturer Fuel Economy)	24.9	24.9
NOX (Nitrogen Oxide)	0.0096	--
N2O (Nitrous Oxide)	0.001	--
HC-NM (Non-methane Hydrocarbon)	0.0045	--
NMOG (Non-methane organic gases)	0.0047	--
HC-TOTAL (Total Hydrocarbon)	0.0067	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	356	356
Optional Carbon-Related Exhaust Emissions	357	357

### Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
Carbon dioxide	356	--

**Manufacturer Test Comments**                      EDV E0 FTP 4k FED. FUEL FTP - Tested as VOLKSWAGEN Tiguan SUV 4 dr. EDV - ETW: 4500

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 4 Bin 30	CREE	356	--	--	--	0.0300	--	356	--	--
Fed	120,000 miles	Federal Tier 4 Bin 30	METHANE	0.0023	--	--	--	0.0006	--	0.003	0.030	Pass
Fed	120,000 miles	Federal Tier 4 Bin 30	N2O	0.0010	--	--	--	0.0001	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.16	--	--	--	0.0300	--	0.2	1.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0047	--	1.10	--	0.0000	--	0.005	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0143	--	--	--	--	--	0.014	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0096	--	--	--	0.0000	--	0.010	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.16	--	--	--	0.0300	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0047	--	1.10	--	0.0000	--	0.005	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0143	--	--	--	--	--	0.014	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0096	--	--	--	0.0000	--	0.010	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

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059572</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)
<b>Test Date</b>	05/17/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T30118	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4853	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	465.9	--
FE BAG 1 (Bag 1 Fuel Economy)	18.4	18.4
CO2 BAG 2 (Bag 2 Carbon Dioxide)	390.6	--
FE BAG 2 (Bag 2 Fuel Economy)	22.2	22.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	341.5	--
FE BAG 3 (Bag 3 Fuel Economy)	25.4	25.4
METHANE (CH4 - Methane)	0.0132	--
CO (Carbon Monoxide)	0.51	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	99.99	--
DT-EER (Drive Trace Energy Economy Rating)	99.99	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	99.99	--
HCHO (Formaldehyde)	0.0035	--
MFR FE (Manufacturer Fuel Economy)	22	22
NOX (Nitrogen Oxide)	0.0298	--
HC-NM (Non-methane Hydrocarbon)	0.1153	--
NMOG (Non-methane organic gases)	0.1268	--
HC-TOTAL (Total Hydrocarbon)	0.1267	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	393	--

## Manufacturer Test Comments

EDV Cold FTP 4k Cold-CO - Tested as VOLKSWAGEN Tiguan SUV 4 dr. EDV - ETW: 4500

### Certification Summary Information Report

Test Group		VVGAV02.0V3A				Evaporative/Refueling Family				VVGAR0139VCA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 4 Bin 30	CO	0.51	--	--	--	0.0090	--	0.5	10.0	Pass
Fed	120,000 miles	Federal Tier 4 Bin 30	HC-NM	0.12	--	--	--	0.0000	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.51	--	--	--	0.0090	--	0.5	10.0	Pass

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059566</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/14/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T31018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4720	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.045	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.62	--
DT-EER (Drive Trace Energy Economy Rating)	-0.06	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.12	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	36.3	36.3
NOX (Nitrogen Oxide)	0.0017	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0007	--
NMOG (Non-methane organic gases)	0.0008	--
HC-TOTAL (Total Hydrocarbon)	0.0007	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	238	999
Optional Carbon-Related Exhaust Emissions	238	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	238	--

## Manufacturer Test Comments

EDV HWY 4k HWFET - Tested as VOLKSWAGEN Tiguan SUV 4 dr. EDV - ETW: 4500

## Certification Summary Information Report

Test Group		VVGAV02.0V3A				Evaporative/Refueling Family				VVGAR0139VCA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 4 Bin 30	CREE	999	--	--	--	0.0300	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0008	--	1.0300	--	0.0000	--	0.001	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0025	--	--	--	--	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0017	--	--	--	0.0000	--	0.002	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0008	--	1.0300	--	0.0000	--	0.001	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0025	--	--	--	--	--	0.002	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0017	--	--	--	0.0000	--	0.002	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

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059571</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	05/31/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T20219	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4949	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>METHANE (CH4 - Methane)</b>	0.0002	--
<b>CO (Carbon Monoxide)</b>	0.064	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	3.36	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	-0.14	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	3.9	--
<b>HCHO (Formaldehyde)</b>	0	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	36.3	36.3
<b>NOX (Nitrogen Oxide)</b>	0.0021	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.0006	--
<b>NMOG (Non-methane organic gases)</b>	0.0006	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.0007	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
<b>Carbon-Related Exhaust Emissions</b>	244	244
<b>Optional Carbon-Related Exhaust Emissions</b>	244	244

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	244	--

## Manufacturer Test Comments

EDV E0 HWY 4k HWFET - Tested as VOLKSWAGEN Tiguan SUV 4 dr. EDV - ETW: 4500

## Certification Summary Information Report

Test Group		VVGAV02.0V3A				Evaporative/Refueling Family				VVGAR0139VCA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 4 Bin 30	CREE	244	--	--	--	0.0300	--	244	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0006	--	1.0300	--	0.0000	--	0.001	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0027	--	--	--	--	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0021	--	--	--	0.0000	--	0.002	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0006	--	1.0300	--	0.0000	--	0.001	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0027	--	--	--	--	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0021	--	--	--	0.0000	--	0.002	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

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059567</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/14/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T31018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4743	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	619.2	--
FE BAG 1 (Bag 1 Fuel Economy)	13.9	13.9
CO2 BAG 2 (Bag 2 Carbon Dioxide)	332.2	--
FE BAG 2 (Bag 2 Fuel Economy)	26	26
METHANE (CH4 - Methane)	0.0051	--
CO (Carbon Monoxide)	0.389	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.69	--
DT-EER (Drive Trace Energy Economy Rating)	-1.28	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.64	--
HCHO (Formaldehyde)	0.0001	--
MFR FE (Manufacturer Fuel Economy)	21.8	21.8
NOX (Nitrogen Oxide)	0.004	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0046	--
NMOG (Non-methane organic gases)	0.0051	--
PM (Particulate Matter)	0.001	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0086	--
HC-TOTAL (Total Hydrocarbon)	0.0095	--

### Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
Carbon dioxide	396	--

**Manufacturer Test Comments**                      EDV US06 4k US06 - Tested as VOLKSWAGEN Tiguan SUV 4 dr. EDV - ETW: 4500

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.39	--	--	--	0.0300	--	0.4	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0051	--	1.0300	--	0.0000	--	0.005	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0040	--	--	--	0.0000	--	0.004	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.0010	--	--	--	0.0000	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.3890	--	--	--	0.0300	--	0.419	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0051	--	1.03	--	0.0000	--	0.005	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0040	--	--	--	0.0000	--	0.004	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.00100	--	--	--	0.0000	--	0.0010	0.0060	Pass

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>LVGA10059568</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/15/2019	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	T31018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen Test Center Oxnard		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4791	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0029	--
CO (Carbon Monoxide)	0.106	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	99.99	--
DT-EER (Drive Trace Energy Economy Rating)	99.99	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	99.99	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	20.4	20.4
NOX (Nitrogen Oxide)	0.0084	--
HC-NM (Non-methane Hydrocarbon)	0.0002	--
NMOG (Non-methane organic gases)	0.0002	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0086	--
HC-TOTAL (Total Hydrocarbon)	0.0027	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	424	--

## Manufacturer Test Comments

EDV SC03 4k SC03 - Tested as VOLKSWAGEN Tiguan SUV 4 dr. EDV - ETW: 4500

## Certification Summary Information Report

Test Group		VVGAV02.0V3A				Evaporative/Refueling Family				VVGAR0139VCA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.11	--	--	--	0.0300	--	0.1	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0002	--	1.0300	--	0.0000	--	0.000	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0084	--	--	--	0.0000	--	0.008	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.1060	--	--	--	0.0300	--	0.136	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0002	--	1.0300	--	0.0000	--	0.000	99.000	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0084	--	--	--	0.0000	--	0.008	99.000	Pass

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA						
<b>Emission Data Vehicle Information</b>									
<b>Vehicle ID / Configuration</b>	VW38003-0082 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0						
<b>Original Test Group Name</b>	PVGAV02.0V7B	<b>Original Evaporative/Refueling Family</b>	PVGAR0139VCA						
<b>Original Test Vehicle Model Year</b>	2023								
<b>Vehicle Model</b>									
<b>Represented Test Vehicle Make</b>	Volkswagen	<b>Represented Test Vehicle Model</b>	GTI						
<b>Leak Family Details</b>									
<b>Leak Family Identifier</b>	001	<b>Leak Family Name</b>	PVGAR0139VCA-001						
<b>Drive Sources and Fuel System Details</b>									
	<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>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
<b>Hybrid Indicator</b>	No								
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--						
<b>Fuel Cell Indicator</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--						
<b>Rechargeable Energy Storage System</b>	--	<b>Rechargeable Energy Storage System, if 'Other'</b>	--						
<b>Off-board charge Capable Indicator</b>	--								
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	0.994						
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
<b>Odometer Correction Units</b>	Miles								
<b>Engine Code</b>	DRNA	<b>Rated Horsepower</b>	241						
<b>Displacement (liters)</b>	1.984								
<b>Air Aspiration Method</b>	Turbocharged	<b>Air Aspiration Method, if 'Other'</b>							
<b>Number of Air Aspiration Devices</b>	1	<b>Air Aspiration Device Configuration</b>	Single						
<b>Charge Air Cooler Type</b>	Air	<b>Drive Mode While Testing</b>	2-Wheel Drive, Front						
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)						
<b>Curb Weight (lbs)</b>	3316	<b>Equivalent Test Weight (pounds)</b>	3750						
<b>GVWR (lbs)</b>	4343	<b>N/V Ratio</b>	26.7						
<b>Axle Ratio</b>	3.12								
<b>Transmission Type</b>	Automated Manual- Selectable (e.g. Automated Manual with paddles)	<b># of Transmission Gears</b>	7						
<b>Transmission Lockup</b>	Yes	<b>Creep Gear</b>	No						

### Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
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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	44.74	0.1809	0.02183	22.32	0.178	0.02072	14.4
Cold CO	49.21	0.199	0.02402	0	0	0	N/A
US06	44.74	0.1809	0.02183	22.32	0.178	0.02072	N/A

**Emission Control Device Comments**      DFI/AIR/TC/CAC/WR-HO2S/HO2S/TWC  
**Manufacturer Test Vehicle Comments**      EVAP

<b>Test #</b>	<b>PVGA10074775</b>	<b>Test Procedure</b>	<b>23 - 2-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	PVGA10074752	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/02/2022	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	WB0014	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen AG WOB2		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	4310	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0916	--

**Manufacturer Test Comments**      2-Day

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	0.0916	0.0000	0.092	0.300	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0916	0.0000	0.092	0.300	Pass

**Certification Summary Information Report**

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>PVGA10074776</b>	<b>Test Procedure</b>	<b>34 - Federal fuel 3-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	PVGA10074753	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/06/2022	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	WB0014	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen AG WOB2		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	4375	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.1516	--

**Manufacturer Test Comments**                      3-Day

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	0.1516	0.0101	0.162	0.300	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1516	0.0101	0.162	0.300	Pass

### Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>PVGA10074778</b>	<b>Test Procedure</b>	<b>24 - Federal fuel refueling test (ORVR)</b>
<b>Exhaust Test # for this Evap Test</b>	PVGA10074751	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	01/28/2022	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	WB0014	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen AG WOB2		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	4274	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC (Hydrocarbon for Running Loss and ORVR)</b>	0.02	--

**Manufacturer Test Comments**                      ORVR

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.020	0.006	0.03	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.020	0.006	0.03	0.20	Pass

### Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>PVGA10074779</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	PVGA10074753	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/06/2022	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	WB0014	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen AG WOB2		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	4386	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.0023	--

**Manufacturer Test Comments**

Running Loss

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	0.0023	0.003	0.005	0.050	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0023	0.003	0.005	0.050	Pass

**Certification Summary Information Report**

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Test #</b>	<b>PVGA10074777</b>	<b>Test Procedure</b>	<b>65 - Evap Canister Bleed Test</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/18/2022	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	WB0014	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen AG WOB2		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	4310	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.012	--

**Manufacturer Test Comments**                      BETP

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	0.0120	0.0000	0.012	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0120	0.0000	0.012	0.020	Pass

## Certification Summary Information Report

Test Group	VVGAV02.0V3A	Evaporative/Refueling Family	VVGAR0139VCA
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>T31018</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	10/08/2018
<b>Fuel Batch Calibration Effective Date</b>	10/08/2018	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.745
<b>Fuel Ethanol Volume Percent (%)</b>	10	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18114
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.831	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>WB0014</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	12/13/2021
<b>Fuel Batch Calibration Effective Date</b>	01/14/2022	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.747
<b>Fuel Ethanol Volume Percent (%)</b>	9.4	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18203
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>T20219</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	02/19/2019
<b>Fuel Batch Calibration Effective Date</b>	02/19/2019	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.743
<b>Fuel Ethanol Volume Percent (%)</b>	--	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18592
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.866	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>T30118</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)	<b>Fuel Batch Calibration Date</b>	01/15/2018
<b>Fuel Batch Calibration Effective Date</b>	01/15/2018	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.743
<b>Fuel Ethanol Volume Percent (%)</b>	10	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17943
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.83	<b>Weight Fraction CO2</b>	--

### Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA						
<b>Consolidated List of Standards</b>									
<b>Exhaust Standards</b>									
<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both						
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	Federal Tier 4 Bin 30						
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	Federal fuel 2-day exhaust (w/can load)						
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
120,000 miles	CREE	--	--	--	--	--	--	0.0300	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0006	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.0300	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0.0000	4.2
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0000	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0000	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0.0000	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003
<b>Cert Region</b>				Federal	<b>Cert/In-Use Code</b>		Both		
<b>Vehicle Class</b>				LDV/Passenger Car	<b>Standard Level</b>		Federal Tier 4 Bin 30		
<b>Fuel</b>				Gasoline	<b>Test Procedure</b>		HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
120,000 miles	CREE	--	--	--	--	--	--	0.0300	999
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0000	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0000	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000

### Certification Summary Information Report

<b>Test Group</b>		VVGAV02.0V3A			<b>Evaporative/Refueling Family</b>			VVGAR0139VCA		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0000	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0000	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 4 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.0300	99.0	
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0000	99.000	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 4 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.0300	99.0	
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0000	99.000	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000	
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.006	

### Certification Summary Information Report

<b>Test Group</b>		VVGAV02.0V3A			<b>Evaporative/Refueling Family</b>			VVGAR0139VCA		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 4 Bin 30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.0090	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0000	0.3	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Federal fuel 2-day exhaust (w/can load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.0300	1.0	
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0000	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0000	0.030	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000	
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.003	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.0300	99.000	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0000	99.000	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000	
150,000 miles	PM	--	--	--	--	--	--	0.0000	0.0060	

### Certification Summary Information Report

<b>Test Group</b>		VVGAV02.0V3A			<b>Evaporative/Refueling Family</b>			VVGAR0139VCA		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Fed. fuel 50 F exh.		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
4,000 miles	CO	--	--	--	--	--	--	--	1.0	
4,000 miles	NMOG	--	--	1.10	--	--	--	--	99.000	
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.060	
4,000 miles	NOX	--	--	--	--	--	--	--	99.000	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.0300	99.000	
150,000 miles	NMOG	--	--	1.0300	--	--	--	0.0000	99.000	
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.000	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-III SULEV30		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.0090	10.0	

**Evaporative/Refueling Standards**

<b>Evaporative/Refueling Family</b>		VVGAR0139VCA			<b>Cert Region</b>			Federal		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>			Federal Tier 3 Evap		
<b>Test Procedure</b>		Federal fuel 3-day evap								
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>					
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0101					

### Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA		
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC	--	0.20	0.006
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.050	0.003
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	California + CAA Section 177 states		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000

## Certification Summary Information Report

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA		
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC	--	0.20	0.006
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.050	0.003
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	Federal Federal Tier 3 Evap		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
<b>Evaporative/Refueling Family</b>	VVGAR0139VCA	<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0101

## Certification Summary Information Report

Test Group	VVGAV02.0V3A	Evaporative/Refueling Family	VVGAR0139VCA
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours

## Certification Summary Information Report

Test Group		VVGAV02.0V3A	Evaporative/Refueling Family		VVGAR0139VCA
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
<b>Certification Region</b>					
CA	California + CAA Section 177 states		FA	Federal	
<b>Exhaust Emission Standard Level</b>					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

## Certification Summary Information Report

Test Group	VVGAV02.0V3A	Evaporative/Refueling Family	VVGAR0139VCA
L2ULEV340	California LEV-II ULEV340	L4SULEV85	California LEV-IV SULEV85
L2LEV630	California LEV-II LEV630	L4ULEV125	California LEV-IV ULEV125
L2ULEV570	California LEV-II ULEV570	L4ULEV200	California LEV-IV ULEV200
L3LEV160	California LEV-III LEV160	L4ULEV250	California LEV-IV ULEV250
L3ULEV125	California LEV-III ULEV125	L4ULEV270	California LEV-IV ULEV270
L3ULEV70	California LEV-III ULEV70	L4ULEV40	California LEV-IV ULEV40
L3ULEV50	California LEV-III ULEV50	L4ULEV400	California LEV-IV ULEV400
L3SULEV30	California LEV-III SULEV30	L4ULEV50	California LEV-IV ULEV50
L3SULEV20	California LEV-III SULEV20	L4ULEV60	California LEV-IV ULEV60
L3LEV395	California LEV-III LEV395	L4ULEV70	California LEV-IV ULEV70
L3ULEV340	California LEV-III ULEV340	T4B170	Federal Tier 4 MDV Bin 170
L3ULEV250	California LEV-III ULEV250	T4B150	Federal Tier 4 MDV Bin 150
L3ULEV200	California LEV-III ULEV200	T4B125	Federal Tier 4 MDV Bin 125
L3SULEV170	California LEV-III SULEV170	T4B100	Federal Tier 4 MDV Bin 100
L3SULEV150	California LEV-III SULEV150	T4B85	Federal Tier 4 MDV Bin 85
L3LEV630	California LEV-III LEV630	T4B75	Federal Tier 4 MDV Bin 75
L3ULEV570	California LEV-III ULEV570	T4B70	Federal Tier 4 Bin 70
L3ULEV400	California LEV-III ULEV400	T4B65	Federal Tier 4 Bin 65
L3ULEV270	California LEV-III ULEV270	T4B60	Federal Tier 4 Bin 60
L3SULEV230	California LEV-III SULEV230	T4B55	Federal Tier 4 Bin 55
L3SULEV200	California LEV-III SULEV200	T4B50	Federal Tier 4 Bin 50
T3B160	Federal Tier 3 Bin 160	T4B45	Federal Tier 4 Bin 45
T3B125	Federal Tier 3 Bin 125	T4B40	Federal Tier 4 Bin 40
T3B110	Federal Tier 3 Transitional Bin 110	T4B35	Federal Tier 4 Bin 35
T3B85	Federal Tier 3 Transitional Bin 85	T4B30	Federal Tier 4 Bin 30
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	T4B25	Federal Tier 4 Bin 25
T3B70	Federal Tier 3 Bin 70	T4B20	Federal Tier 4 Bin 20
T3B50	Federal Tier 3 Bin 50	T4B15	Federal Tier 4 Bin 15
T3B30	Federal Tier 3 Bin 30	T4B10	Federal Tier 4 Bin 10
T3B20	Federal Tier 3 Bin 20	T4B5	Federal Tier 4 Bin 5
T3B0	Federal Tier 3 Bin 0	T4B0	Federal Tier 4 Bin 0
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395		
<b>Transmission Type Code</b>			
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)
<b>Drive System Code</b>			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

**Certification Summary Information Report**

<b>Test Group</b>	VVGAV02.0V3A	<b>Evaporative/Refueling Family</b>	VVGAR0139VCA
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		
<b>Additional Terms and Acronyms</b>			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

## 8. Emission Testing Waiver Statements

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

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

The normal operation of the emission control system consists of:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

***Formaldehyde Emissions Compliance Statement***

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

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

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

***Spitback Compliance Statement***

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

***Evaporative Leak Test Compliance Statement***

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

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

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

## **9.0 OBD System Description**

### **9.1 Summary Table**

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

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

Refer to Section 16

**10. Description of Alternate Fueled Vehicles**

Not applicable

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

Refer to Section 16.2 of this Application

## 12.0 List of Certified Vehicles

<b>Durability Group</b>	VVGAGPGNNV3A
<b>Test Group</b>	VVGAV02.0V3A
<b>Evap Family</b>	VVGAR0139VCA
<b>Emission Control System:</b>	CAC/DFI/AIR/TC/WR-HO2S/TWC(2)/HO2S

<b>Engine Displacement:</b>	2.0 liter
<b>Valves per Cylinder:</b>	4
<b>Sales Area:</b>	50 states
<b>MMS :</b>	Simos 18.10
<b>SIL :</b>	N/A

Engine Code	Model	Vehicle Class	Engine Code Characteristics			HP @RPM	Torque @RPM [lb-ft]	Trans. / OD	ETW	Curb Weight [lbs]	GVWR [lbs]	Fuel Tank Capacity [Gal]	Canister working capacity [g]	Tire size	N/V Ratio	Start/ Stop [Y/N]
			Cat. Code	Compression ratio	Idle [rpm]											
DXSA	GLI	LDV	UTC1007 UTC1005	9.6	700± 50	228 @ 6,700	258 lb-ft @ 4400	DQ381-7F	3,625	3,340	4,365	13.2	139	225/45 R18	25.7	Y

## 12.1 Transmissions

Transmission	Transmission Characteristic												
	Drivetrain	Gear Count	Lock-Up rpm		Gearbox Ratios								
			Gear	min/max	Axle	Gear 1	Gear 2	Gear 3	Gear 4	Gear 5	Gear 6	Gear 7	Gear 8
<b>GLI DQ381-7F</b>	FWD	7	1-7	n.a.	1: 4.167 2: 3.125	3.40	2.75	1.767	0.925	0.705	0.755	0.635	-

## 12.2 Test conditions

Model	ETW	Road Track Coefficients						TRL50	Fuel Tank Cap.	Fan Pos.	Shift Sched. I.D.	Test Fuel	DF Source
		F0	F1	F2	F0	F1	F2						
	[lbs]	[lb*f]	[lb*f/mph]	[lb*f/(mph) <sup>2</sup> ]	[N]	[N/(km/h)]	[N/(km/h) <sup>2</sup> ]	[hp]	40% / 100% [Gal]				
Tiguan 4 Motion (EDV)	4500	30.46	0.6008	0.02073	135.49	1.6606	0.03561	15.0	6.6 / 16.4	20	Automatic	Tier 3 Tier 2	UA-206
GLI	3625	29.47	0.1368	0.01832	131.07	0.3780	0.03146	10.9	5.3 / 13.2	20	Automatic	Tier 2	UA-206

### Engine Starting procedure:

Press the brake pedal and move the selector lever into the P or N position.

Start engine by turning key to "Start" position or by pushing the Engine "Stop/Start" button.

### ESP/ABS Deactivation procedure

Dyno Mode must be activated.

Refer to Section 16 for Dyno Mode activation procedure.

### Fan Position during dyno testing:

FTP / HWY = Road Speed Fan (Modulated)

US06 = Road Speed Fan (Modulated)

### Automatic Headlight System:

Automatic headlight system must be disabled prior to any emissions or fuel economy / range testing. Automatic headlights can be turned off via the infotainment / MMI screen.

Please contact VWGoA Engineering and Environmental Office if you need assistance with disabling the automatic headlights.

### Daytime Running Lights (DRL):

Daytime running lights must be disabled prior to fuel economy / range testing. DRLs can be turned off via the infotainment / MMI screen.

Please contact VWGoA Engineering and Environmental Office if you need assistance with disabling the daytime running lights.

### Climate Control Settings used for testing:

- SC03: Climate Control Setting description (if needed)
- Cold CO: Climate Control Setting description and approval from certification representative acc. to IACD-2025-15 (ONLY if multiple automatic level settings are available)
- Occupant Sensing System description and approval from certification representative acc. to IACD-2025-15 (ONLY if Occupant Sensing System can be overridden by vehicle operator)

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

Not Applicable

### **12.4 Battery details**

Not Applicable

### **12.4 Charging details**

Not Applicable

## **13.0 Test Group Projected Sales**

Refer to Section 16 of this Test Group Application

## **13.1 Compliance Plans**

Refer to Section 16 of the Common Section

## **14. Request for Certificate**

### **14.1 Statement of Compliance**

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

### **14.2. Durability Statement**

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





# US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

## General Information

**Date:** 02/18/2026

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

VGA

Manufacturer Name \*

Volkswagen Group of America

Contact Name \*

Greg Allen

Contact Email Address \*

Gregory.Allen@vw.com

Contact Phone \*

248-754-4209

Calendar Year complete application submitted to EPA \*

2026

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

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

Engine Family / Evaporative Family / Test Group \*

VVGAV02.0V3A

### Certificate Request Type (Industry Sector Code)

Certificate Request Type \*

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? \*

No

### Payment Information

Amount Owed

\$32,317.00

Payment Type \*

Offline ACH

Comments

MY2027 Certification Fee for VVGAV02.0V3A  
Pay.gov Tracking ID: 27VNMDG5  
Agency Tracking ID: 77300738403

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).

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

March 10, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions  
Certification for Test Group VVGAV02.0V3A with Evaporative Family  
VVGAR0139VCA.

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>
VVGAV02.0V3A	Tier 4 Interim Bin 30 LEVIII SULEV 30	Federal California

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

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

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

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

Sincerely,

D'Ambrosi Anthony  
VWPKI  
5406C07D40F4331C  
Date: 2026.03.10 09:51:55 -04'00'

Digitally signed by D'Ambrosi  
Anthony VWPKI  
5406C07D40F4331C  
Date: 2026.03.10 09:51:55 -04'00'

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

Enclosure(s)

### **15.3 ORVR Safety Statement**

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

## **16 Confidential Information**

### **16.1 OBD Application**

Refer to the OBD II Application in Section 16

March 6, 2026

Reference No. E-26-049

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 VVGAV02.0V3A, VVGAV02.0V7B, VVGAT02.0A3C, and VVGAV02.0A7N

Dear Mr. Sutschek,

The California Air Resources Board's (CARB) On-Board Diagnostics Branch has received the OBD II system description submitted by VW for the 2027 MY test groups listed above. Representations made in the application indicate that the system is compliant with the OBD II regulation<sup>1</sup> except for SAE International (SAE) J1979-2 implementation for all test groups listed above and diagnostic or emission critical electronic control unit (DEC ECU) requirements for steering column control module (SCCM) for test group VVGAT02.0A3C only. Therefore, CARB approves the 2027 MY system design with 1 deficiency for SAE J1979-2 implementation for test groups VVGAV02.0V3A, VVGAV02.0V7B, and VVGAV02.0A7N, and 2 deficiencies for SAE J1979-2 implementation and DEC ECU requirements for SCCM for test group VVGAT02.0A3C. Details of the deficiencies were provided in prior approval letters (Reference Nos. E-25-252 and E-26-032).

---

<sup>1</sup> Unless otherwise noted, all regulation references are to title 13, California Code of Regulations, section 1968.2.

Mr. Rob Sutschek, Vice President  
March 6, 2026  
Page 2  
Confidential

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

Sincerely,

A handwritten signature in blue ink that reads "Tawron Adams for". The signature is written in a cursive, flowing style.

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

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

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  
March 10, 2026 Date

Subject: MY 2027 Volkswagen Group Light Duty Vehicle Initial Application for Emissions  
Certification for Test Group VVGAV02.0V3A with Evaporative Family  
VVGAR0139VCA.

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>
VVGAV02.0V3A	Tier 4 Interim Bin 30 LEVIII SULEV 30	Federal California

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

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

Sincerely,

D'Ambrosi Anthony  
VWPKI  
5406C07D40F4331C  
Digitally signed by D'Ambrosi  
Anthony VWPKI  
5406C07D40F4331C  
Date: 2026.03.10 09:51:13 -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<sub>NMOG</sub>**: 1.04 (no RAF applied) (E0 fuel)

**F<sub>NMOG</sub>**: 1.10 (no RAF applied) (E10 fuel)

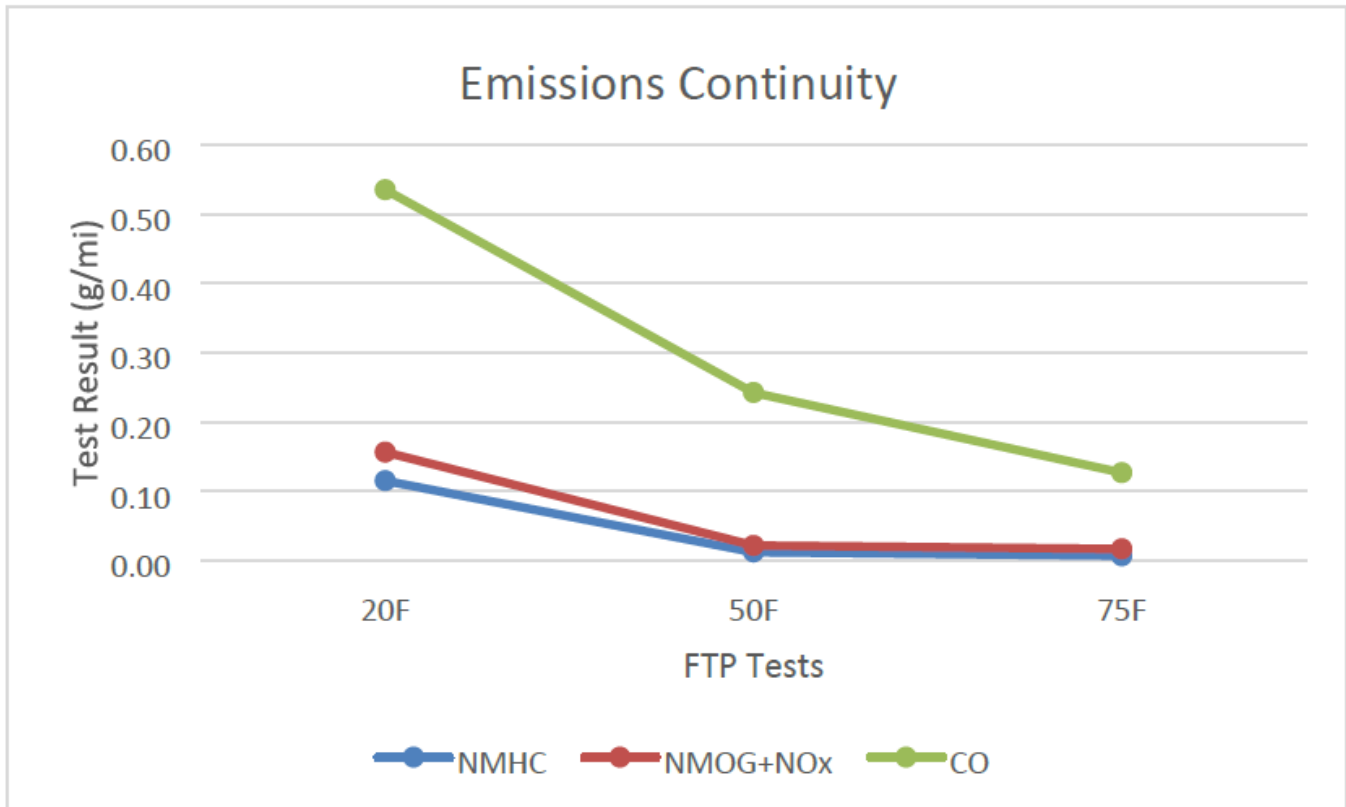
According to ARB regulations

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

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

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

## 17.5 Continuity of Emissions



## 17.6 Applicable Deterioration Factors

	THC (g/mi)	NMHC (g/mi)	NMOG (g/mi)	NOx (g/mi)	CO (g/mi)	HCHO (mg/mi)	PM (g/mi)	NMOG+NOx (g/mi)
50k	0.00	0.00	0.00	0.00	0.010	0.00	0.00	0.00
150k	0.00	0.00	0.00	0.00	0.030	0.00	0.00	0.00

## 21. Vehicle Emission Control Information Label

VW <b>Volkswagen</b> LOGO VEHICLE EMISSION CONTROL INFORMATION			
Conforms to regulations:			2027 MY
U.S. EPA: BIN30	LDV	OBD: CA II	Fuel: Gasoline
California: SULEV30	PC	OBD: CA II	Fuel: Gasoline
No adjustments needed		CAC/DFI/AIR/TC/WR-HO2S/ TWC(2)/HO2S	
Group: VVGAV02.0V3A Evap: VVGAR0139VCA		DMC	06K 010 005 DB

## **21.2 Engine Control Module (ECM) Information**

Model	Engine Code	SW-Part number	Cal ID	CVN	Comments
GLI	DXSA	5G0.906.259.AM	5G0259AM0001DXAJ	70A94B1E	w ST w RS DQ

## **21.3 Transmission Control Module (TCM) Information**

Model	Trans Code	SW-Part number	Cal ID	CVN	Comments
GLI	DQ381	0GC.906.557.PH	0GC906557PH+0661	DF261088	