

Certification Summary Information Report

Manufacturer	Volkswagen Group of America, Inc.	Manufacturer Code	VGA
Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Certificate Number	VVGAV01.5V2Q-017	CARB Executive Order #	--
Certificate Issue Date	06/22/2026	Certificate Revision Date	--
Certificate Effective Date	06/22/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	06/09/2026 02:43:00 PM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition Direct fuel injection	Yes

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VVGAGPGNNV2Q	Durability Group Equivalency Factor	2.2
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	07/13/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VVGAJ01.5V2L
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
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Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	03/10/2026 06:16:53 PM
Integrated ORVR?	Yes	Fuel(s)	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	139	Number of Primary Canisters	1
Number of Bleed Canisters	2	Bleed Canister Total Working Capacity (grams)	4
Mfr Evaporative/Refueling Family Comments	Jetta MY27		

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

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VVGAR0139VDP-001	50 State	0.02	--

Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Volkswagen Group of America, Inc.	1 - Volkswagen	223 - Jetta Sport/SE/SEL	California + CAA Section 177 states	2-Wheel Drive, Front	Semi-Automatic	8	Yes
Volkswagen Group of America, Inc.	1 - Volkswagen	223 - Jetta Sport/SE/SEL	Federal	2-Wheel Drive, Front	Semi-Automatic	8	Yes
Volkswagen Group of America, Inc.	1 - Volkswagen	222 - Jetta	Federal	2-Wheel Drive, Front	Semi-Automatic	8	Yes
Volkswagen Group of America, Inc.	1 - Volkswagen	222 - Jetta	California + CAA Section 177 states	2-Wheel Drive, Front	Semi-Automatic	8	Yes

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

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP								
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction							
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith							
2	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith							
Mfr After Treatment Device (ATD) Comments --											
Direct Ozone Reduction (DOR) Device Not Equipped											
Mfr Emission Control Device Comments --											
Engine Configuration Number 1											
Engine Displacement (liters)	1.5	Engine Rated Horsepower	158								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1								
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Liquid								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	CONTINUOUSLY VARIABLE VALVE TIMING										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	1	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No								
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	Yes										
Air Injection Type	Secondary Air Injection	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	Applies to DNKA var: 0										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	PVGA10075255	PVGA10075252	PVGA10075254	PVGA10075253	PVGA10075251	27.3	228.2	37.8	286.1	--	

Certification Summary Information Report

Test Group		VVGAV01.5V2Q		Evaporative/Refueling Family		VVGAR0139VDP	
SFTP LEV-III Official Test Numbers							
Test Group Fuel		FTP		US06		SC03	
Gasoline		PVGA10075255		PVGA10075252		PVGA10075254	

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP						
Emission Data Vehicle Information									
Vehicle ID / Configuration	VW316530120 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	PVGAT01.5V3L	Original Evaporative/Refueling Family	PVGAR0139VCF						
Original Test Vehicle Model Year	2023								
Vehicle Model									
Represented Test Vehicle Make	Volkswagen	Represented Test Vehicle Model	Taos 4Motion						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	PVGAR0139VCF-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	0						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	DNKA	Rated Horsepower	158						
Displacement (liters)	1.5								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3510	Equivalent Test Weight (pounds)	3875						
GVWR (lbs)	4608	N/V Ratio	30.5						
Axle Ratio	3.9								
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VVGAV01.5V2Q			Evaporative/Refueling Family		VVGAR0139VDP	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	34.08	0.3944	0.02164	-7.96	0.4617	0.01891	14.4	
Cold CO	37.49	0.4338	0.02381	-16.66	0.2567	0.02244	N/A	
US06	34.08	0.3944	0.02164	-7.96	0.4617	0.01891	N/A	
Emission Control Device Comments		DFI/AIR/TC/CAC/WR-H02S/H02S/WU-TWC/TWC						
Manufacturer Test Vehicle Comments		--						

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	PVGA10075253	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	04/07/2022	Fuel	Gasoline
Fuel Batch ID	TC0014	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4403	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	402.8284593	--
FE BAG 1 (Bag 1 Fuel Economy)	21.2227771	21.2227771
CO2 BAG 2 (Bag 2 Carbon Dioxide)	344.245119	--
FE BAG 2 (Bag 2 Fuel Economy)	25.1331491	25.1331491
CO2 BAG 3 (Bag 3 Carbon Dioxide)	308.9328929	--
FE BAG 3 (Bag 3 Fuel Economy)	28.0027671	28.0027671
METHANE (CH4 - Methane)	0.0077107	--
CO (Carbon Monoxide)	0.5860523	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.5423592	--
DT-EER (Drive Trace Energy Economy Rating)	0.5190354	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.1142528	--
MFR FE (Manufacturer Fuel Economy)	24.9	24.9
NOX (Nitrogen Oxide)	0.0171889	--
N2O (Nitrous Oxide)	0.0016011	--
HC-NM (Non-methane Hydrocarbon)	0.0825696	--
NMOG (Non-methane organic gases)	0.0909	--
HC-TOTAL (Total Hydrocarbon)	0.0900389	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	347	--

Manufacturer Test Comments

4k Cold-CO - Tested as VOLKSWAGEN dr. - ETW: 3875

Certification Summary Information Report

Test Group		VVGAV01.5V2Q				Evaporative/Refueling Family				VVGAR0139VDP		
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 20	CO	0.59	--	--	--	0.02	--	0.6	10.0	Pass
Fed	120,000 miles	Federal Tier 4 Bin 20	HC-NM	0.08	--	--	--	0.0015	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-III SULEV20	CO	0.59	--	--	--	0.02	--	0.6	10.0	Pass

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	PVGA10075255	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/12/2022	Fuel	Gasoline
Fuel Batch ID	TC0013	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4428	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	314.5430661	--
FE BAG 1 (Bag 1 Fuel Economy)	27.5191659	27.5191659
CO2 BAG 2 (Bag 2 Carbon Dioxide)	295.5174013	--
FE BAG 2 (Bag 2 Fuel Economy)	29.3197335	29.3197335
CO2 BAG 3 (Bag 3 Carbon Dioxide)	274.9145795	--
FE BAG 3 (Bag 3 Fuel Economy)	31.5145209	31.5145209
METHANE (CH4 - Methane)	0.0015683	--
CO (Carbon Monoxide)	0.1256172	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2996692	--
DT-EER (Drive Trace Energy Economy Rating)	0.0092046	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.6079262	--
MFR FE (Manufacturer Fuel Economy)	29.5	29.5
NOX (Nitrogen Oxide)	0.0081075	--
N2O (Nitrous Oxide)	0.0015519	--
HC-NM (Non-methane Hydrocarbon)	0.0029608	--
NMOG (Non-methane organic gases)	0.0033	--
PM (Particulate Matter)	0.0005807	--
HC-TOTAL (Total Hydrocarbon)	0.00448	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	294	999

Certification Summary Information Report

Test Group		VVGAV01.5V2Q				Evaporative/Refueling Family				VVGAR0139VDP																				
<table><tr><td colspan="2">Test Result Name</td><td colspan="4">Unrounded Test Result</td><td colspan="3">Verify Calculated CO2</td></tr><tr><td colspan="2">Carbon dioxide</td><td colspan="4">294</td><td colspan="3">--</td></tr></table>													Test Result Name		Unrounded Test Result				Verify Calculated CO2			Carbon dioxide		294				--		
Test Result Name		Unrounded Test Result				Verify Calculated CO2																								
Carbon dioxide		294				--																								
Manufacturer Test Comments		4k FED. FUEL FTP - Tested as VOLKSWAGEN dr. - ETW: 3875																												
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 20	CREE	999	--	--	--	0.09	--	999	--	--																		
Fed	120,000 miles	Federal Tier 4 Bin 20	METHANE	0.0016	--	--	--	0.0024	--	0.004	0.030	Pass																		
Fed	120,000 miles	Federal Tier 4 Bin 20	N2O	0.0016	--	--	--	0	--	0.002	0.010	Pass																		
Fed	150,000 miles	Federal Tier 4 Bin 20	CO	0.13	--	--	--	0.06	--	0.2	1.0	Pass																		
Fed	150,000 miles	Federal Tier 4 Bin 20	CO-COMP	0.35	--	--	--	--	--	0.4	4.2	Pass																		
Fed	150,000 miles	Federal Tier 4 Bin 20	NMOG	0.0033	--	1.0991	--	0.0022	--	0.006	99.000	Pass																		
Fed	150,000 miles	Federal Tier 4 Bin 20	NMOG+NOX	0.0114	--	--	--	--	--	0.014	0.020	Pass																		
Fed	150,000 miles	Federal Tier 4 Bin 20	NMOG+NOX-COMP	0.0136	--	--	--	--	--	0.014	0.030	Pass																		
Fed	150,000 miles	Federal Tier 4 Bin 20	NOX	0.0081	--	--	--	0	--	0.008	99.000	Pass																		
Fed	150,000 miles	Federal Tier 4 Bin 20	PM	0.0006	--	--	--	0	--	0.001	0.003	Pass																		
CA	150,000 miles	California LEV-III SULEV20	CO	0.13	--	--	--	0.06	--	0.2	1.0	Pass																		
CA	150,000 miles	California LEV-III SULEV20	CO-COMP	0.35	--	--	--	--	--	0.4	4.2	Pass																		
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0033	--	1.0991	--	0.0022	--	0.006	99.000	Pass																		
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0114	--	--	--	--	--	0.014	0.020	Pass																		
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX-COMP	0.0136	--	--	--	--	--	0.014	0.030	Pass																		
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0081	--	--	--	0	--	0.008	99.000	Pass																		
CA	150,000 miles	California LEV-III SULEV20	PM	0.0006	--	--	--	0	--	0.001	0.003	Pass																		

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	PVGA10075256	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/16/2022	Fuel	Gasoline
Fuel Batch ID	TC0017	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4474	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	324.6819333	--
FE BAG 1 (Bag 1 Fuel Economy)	26.6187644	26.6187644
CO2 BAG 2 (Bag 2 Carbon Dioxide)	304.9417198	--
FE BAG 2 (Bag 2 Fuel Economy)	28.3967515	28.3967515
CO2 BAG 3 (Bag 3 Carbon Dioxide)	277.4589523	--
FE BAG 3 (Bag 3 Fuel Economy)	31.2049785	31.2049785
METHANE (CH4 - Methane)	0.0020503	--
CO (Carbon Monoxide)	0.1166517	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1479665	--
DT-EER (Drive Trace Energy Economy Rating)	0.0272298	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.0339797	--
MFR FE (Manufacturer Fuel Economy)	28.8	28.8
NOX (Nitrogen Oxide)	0.0076403	--
N2O (Nitrous Oxide)	0.0008387	--
HC-NM (Non-methane Hydrocarbon)	0.0062729	--
NMOG (Non-methane organic gases)	0.0069	--
HC-TOTAL (Total Hydrocarbon)	0.0082768	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	301	--

Manufacturer Test Comments

4k FED. FUEL 50' FTP - Tested as VOLKSWAGEN dr. - ETW: 3875

Certification Summary Information Report

Test Group		VVGAV01.5V2Q				Evaporative/Refueling Family				VVGAR0139VDP		
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 SULEV20	CO	0.12	--	--	--	--	--	0.1	1.0	Pass
CA	4,000 miles	California LEV-III SULEV20	NMOG	0.0069	--	1.0991	--	--	--	0.007	99.999	Pass
CA	4,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0145	--	--	--	--	--	0.014	0.040	Pass
CA	4,000 miles	California LEV-III SULEV20	NOX	0.0076	--	--	--	--	--	0.008	99.999	Pass

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	PVGA10075251	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/05/2022	Fuel	Gasoline
Fuel Batch ID	TC0013	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4315	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.0568417	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.6472375	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3151747	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.9781002	--
MFR FE (Manufacturer Fuel Economy)	42.7	42.7
NOX (Nitrogen Oxide)	0.0021461	--
N2O (Nitrous Oxide)	0.0001755	--
HC-NM (Non-methane Hydrocarbon)	0.0000189	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0000189	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	203	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	203	--

Manufacturer Test Comments 4k HWFET - Tested as VOLKSWAGEN dr. - ETW: 3875

Certification Summary Information Report

Test Group		VVGAV01.5V2Q			Evaporative/Refueling Family					VVGAR0139VDP		
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 20	CREE	999	--	--	--	0.09	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 20	NMOG	0	--	1.03	--	0.0022	--	0.002	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 20	NMOG+NOX	0.0021	--	--	--	--	--	0.004	0.020	Pass
Fed	150,000 miles	Federal Tier 4 Bin 20	NOX	0.0021	--	--	--	0	--	0.002	99.000	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0	--	1.03	--	0.0022	--	0.002	99.000	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG+NOX	0.0021	--	--	--	--	--	0.004	0.020	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0021	--	--	--	0	--	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

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	PVGA10075252	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/05/2022	Fuel	Gasoline
Fuel Batch ID	TC0013	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4341	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	487.935398	--
FE BAG 1 (Bag 1 Fuel Economy)	17.6830328	17.6830328
CO2 BAG 2 (Bag 2 Carbon Dioxide)	275.9896212	--
FE BAG 2 (Bag 2 Fuel Economy)	31.3317591	31.3317591
METHANE (CH4 - Methane)	0.0021691	--
CO (Carbon Monoxide)	0.6524425	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.1655609	--
DT-EER (Drive Trace Energy Economy Rating)	-1.1566289	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.1756221	--
MFR FE (Manufacturer Fuel Economy)	26.8	26.8
NOX (Nitrogen Oxide)	0.012104	--
N2O (Nitrous Oxide)	0.001109	--
HC-NM (Non-methane Hydrocarbon)	0.0030564	--
NMOG (Non-methane organic gases)	0.0031	--
PM (Particulate Matter)	0.002386	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0152	--
HC-TOTAL (Total Hydrocarbon)	0.0051576	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	323	--

Certification Summary Information Report

Test Group		VVGAV01.5V2Q				Evaporative/Refueling Family				VVGAR0139VDP		
Manufacturer Test Comments		4k US06 - Tested as VOLKSWAGEN dr. - ETW: 3875										
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 20	CO	0.65	--	--	--	0.06	--	0.7	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 20	NMOG	0.0031	--	1.03	--	0.0022	--	0.005	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 20	NOX	0.0121	--	--	--	0	--	0.012	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 20	PM	0.0024	--	--	--	0	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-III SULEV20	CO	0.65	--	--	--	0.06	--	0.7	99.0	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0031	--	1.03	--	0.0022	--	0.005	99.000	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0121	--	--	--	0	--	0.012	99.000	Pass
CA	150,000 miles	California LEV-III SULEV20	PM	0.0024	--	--	--	0	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	PVGA10075254	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/11/2022	Fuel	Gasoline
Fuel Batch ID	TC0013	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4413	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0018664	--
CO (Carbon Monoxide)	0.1569992	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.8650408	--
DT-EER (Drive Trace Energy Economy Rating)	0.1446445	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.5886662	--
MFR FE (Manufacturer Fuel Economy)	25.3	25.3
NOX (Nitrogen Oxide)	0.0076128	--
N2O (Nitrous Oxide)	0.0012314	--
HC-NM (Non-methane Hydrocarbon)	0.0007842	--
NMOG (Non-methane organic gases)	0.0008	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0084	--
HC-TOTAL (Total Hydrocarbon)	0.0025921	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	343	--

Manufacturer Test Comments 4k SC03 - Tested as VOLKSWAGEN dr. - ETW: 3875

Certification Summary Information Report

Test Group		VVGAV01.5V2Q				Evaporative/Refueling Family				VVGAR0139VDP		
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 20	CO	0.16	--	--	--	0.06	--	0.2	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 20	NMOG	0.0008	--	1.03	--	0.0022	--	0.003	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 20	NOX	0.0076	--	--	--	0	--	0.008	99.000	Pass
CA	150,000 miles	California LEV-III SULEV20	CO	0.16	--	--	--	0.06	--	0.2	99.0	Pass
CA	150,000 miles	California LEV-III SULEV20	NMOG	0.0008	--	1.03	--	0.0022	--	0.003	99.000	Pass
CA	150,000 miles	California LEV-III SULEV20	NOX	0.0076	--	--	--	0	--	0.008	99.000	Pass

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP					
Emission Data Vehicle Information								
Vehicle ID / Configuration	VW37105-0046 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	SVGAV01.5V2Q	Original Evaporative/Refueling Family	SVGAR0139VDP					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	Volkswagen	Represented Test Vehicle Model	Jetta SEL					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>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	0	Odometer Correction Factor	0.9973					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	DNKA	Rated Horsepower	158					
Displacement (liters)	1.498							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single					
Charge Air Cooler Type	Liquid	Drive Mode While Testing	2-Wheel Drive, Front					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	3135	Equivalent Test Weight (pounds)	3500					
GVWR (lbs)	4167	N/V Ratio	28.6					
Axle Ratio	3.37							
Transmission Type	Semi-Automatic	# of Transmission Gears	8					
Transmission Lockup	Yes	Creep Gear	No					

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
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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	29.96	0.1052	0.01659	17.38	-0.0843	0.01788	10.2
Cold CO	32.95	0.1157	0.01825	0	0	0	N/A
US06	29.96	0.1052	0.01659	17.38	-0.0843	0.01788	N/A

Emission Control Device Comments	CAC/DFI/AIR/TC/WR-HO2S/WU-TWC/HO2S/TWC
Manufacturer Test Vehicle Comments	EVAP 4k

Test #	SVGA10085817	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SVGA10085809	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/28/2024	Fuel	Gasoline
Fuel Batch ID	WB0024	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen AG WOB2		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4270	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.176	--

Manufacturer Test Comments	3D-SHED
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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	0.176	0.0555	0.232	0.275	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.176	0.056	0.232	0.275	Pass

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	SVGA10085818	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	SVGA10085807	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/12/2024	Fuel	Gasoline
Fuel Batch ID	WB0024	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen AG WOB2		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4208	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.153	--

Manufacturer Test Comments2D SHED

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.153	0.0184	0.171	0.275	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.153	0.018	0.171	0.275	Pass

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP						
Test #	SVGA10085816	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	SVGA10085808	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	02/22/2024	Fuel	Gasoline						
Fuel Batch ID	WB0024	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Volkswagen AG WOB2								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4234	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.012</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.012	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.012	--							
Manufacturer Test Comments 4kmi ORVR									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.012	0.017	0.03	0.2	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.012	0.017	0.03	0.2	Pass	

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Test #	SVGA10085862	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SVGA10085809	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/28/2024	Fuel	Gasoline
Fuel Batch ID	WB0024	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen AG WOB2		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4281	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0006	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.001	0	0	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.001	0	0	0.05	Pass

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP					
Test #	SVGA10085815	Test Procedure	65 - Evap Canister Bleed Test					
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)					
Test Date	04/13/2024	Fuel	N/A					
Fuel Batch ID	WB0024	Fuel Calibration Number	1					
Vehicle Class	N/A	DF Type	Mfr. Determined					
Verify Test Lab ID	Volkswagen AG WOB2							
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)							
Test Start Odometer Reading	0	Odometer Units	M					
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--					
State of Charge Delta	--							
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--					
Test Results								
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value</th></tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.0082</td><td>--</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0082	--	
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value						
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0082	--						
Manufacturer Test Comments	MY25 Jetta BETP 268nL purge, bench test no ATFX file							

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Fuel Properties			
Fuel Batch ID	TC0013	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/24/2021
Fuel Batch Calibration Effective Date	07/30/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.746
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17945
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	WB0024	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/23/2024
Fuel Batch Calibration Effective Date	01/24/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17932
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	TC0014	Fuel Calibration Number	1
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	08/11/2021
Fuel Batch Calibration Effective Date	07/29/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17925
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	TC0017	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/15/2021
Fuel Batch Calibration Effective Date	11/15/2021	Fuel Batch Calibration Ineffective Date	--

Certification Summary Information Report

Test Group	VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17945
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VVGAV01.5V2Q			Evaporative/Refueling Family			VVGAR0139VDP	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 20	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.09	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0024	0.030
120,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	CO	--	--	--	--	--	--	0.06	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0022	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	99.000
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 20	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0015	0.3

Certification Summary Information Report

Test Group	VVGAV01.5V2Q				Evaporative/Refueling Family			VVGAR0139VDP	
Cert Region	Federal				Cert/In-Use Code			Both	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 4 Bin 20	
Fuel	Gasoline				Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	99.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.000
150,000 miles	NOX	--	--	--	--	--	--	0	99.000
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region	Federal				Cert/In-Use Code			Both	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 4 Bin 20	
Fuel	Gasoline				Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	99.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.000
150,000 miles	NOX	--	--	--	--	--	--	0	99.000

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III SULEV20	
Fuel	Gasoline				Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	99.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.000
150,000 miles	NOX	--	--	--	--	--	--	0	99.000
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Certification Summary Information Report

Test Group		VVGAV01.5V2Q			Evaporative/Refueling Family			VVGAR0139VDP	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20	
Fuel		Gasoline			Test Procedure			Fed. fuel 50 F exh.	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	1.0
4,000 miles	HCHO	--	--	--	--	--	--	--	0.008
4,000 miles	NMOG	--	--	1.0991	--	--	--	--	99.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.040
4,000 miles	NOX	--	--	--	--	--	--	--	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	99.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.000
150,000 miles	NOX	--	--	--	--	--	--	0	99.000
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 20	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.09	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NOX	--	--	--	--	--	--	0	99.000

Certification Summary Information Report

Test Group		VVGAV01.5V2Q			Evaporative/Refueling Family			VVGAR0139VDP	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0022	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	99.000
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0022	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.020
150,000 miles	NOX	--	--	--	--	--	--	0	99.000

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV20	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group		VVGAV01.5V2Q		Evaporative/Refueling Family		VVGAR0139VDP	
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.018		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.017		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.0555		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.0184		

Certification Summary Information Report

Test Group		VVGAV01.5V2Q		Evaporative/Refueling Family		VVGAR0139VDP	
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.017		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.275	0.056		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VVGAR0139VDP		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		

Certification Summary Information Report

Test Group		VVGAV01.5V2Q	Evaporative/Refueling Family	VVGAR0139VDP
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VVGAV01.5V2Q	Evaporative/Refueling Family		VVGAR0139VDP
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VVGAV01.5V2Q	Evaporative/Refueling Family		VVGAR0139VDP
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VVGAV01.5V2Q	Evaporative/Refueling Family		VVGAR0139VDP
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	