

Certification Summary Information Report

Manufacturer	Volkswagen Group of America, Inc.	Manufacturer Code	VGA
Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Certificate Number	VVGAV04.0P7B-032	CARB Executive Order #	--
Certificate Issue Date	09/03/2026	Certificate Revision Date	--
Certificate Effective Date	09/03/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	08/24/2026 08:34:49 AM
Model Year	2027		

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN					
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:	Electric Motor							
	<table border="1"> <tr> <th>Fuel</th> <th>Basic Fuel Metering System</th> <th>Lean Burn Strategy Indicator</th> </tr> <tr> <td>Electricity</td> <td>--</td> <td>--</td> </tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Electricity	--	--	
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator						
Electricity	--	--						
Drive Source #2:	Combustion Engine							
	<table border="1"> <tr> <th>Fuel</th> <th>Basic Fuel Metering System</th> <th>Lean Burn Strategy Indicator</th> </tr> <tr> <td>Gasoline</td> <td>Spark Ignition Direct fuel injection</td> <td>No</td> </tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Gasoline	Spark Ignition Direct fuel injection	No	
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator						
Gasoline	Spark Ignition Direct fuel injection	No						
Hybrid Indicator	Yes							
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes					
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes					
Fuel Cell Indicator	No	EPA Vehicle Class	LDV					
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--					
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No					
Durability Group Name	VVGAHHGNNP7B	Durability Group Equivalency Factor	1					
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA					
Complies with HD GHG 2b/3 regulations?	No							
Introduction into Commerce Date	09/21/2026	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	TVGAT04.0LAA					
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1					
OBD Deficiencies Comments	Ref #: E-26-094, 1 Deficiency - Comprehensive Component System Monitoring (Li-Ion 12V Battery)							
Mfr Test Group Comments	--							
Mfr Exhaust / Evap Standards Comments	--							

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	08/06/2026 04:59:22 PM
Integrated ORVR?	No	Fuel(s)	Gasoline, Electricity
Multiple Fuel Storage	Fuels Stored Separately		
Bladder Fuel Tank?	No		
Fuel Tank Material	Metal	Fuel Tank Material Description	--
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	180	Number of Primary Canisters	1
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--
Mfr Evaporative/Refueling Family Comments	Evap system for Continental/Flying Spur PHEV test group		
Leak Family Details			
Leak Family Indicator	Yes		
Canister Bleed Test Indicator	No	Applicability of Evaporative Canister Bleed Test	--
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--
CARB Fuel Only (Rig) Test Comments	--		
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VVGAR0180ECN-001	50 State	0.02	--

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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.	3 - Bentley	46 - Continental GTC	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	3 - Bentley	35 - Continental GT	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	3 - Bentley	46 - Continental GTC	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	3 - Bentley	35 - Continental GT	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	3 - Bentley	48 - Flying Spur	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Volkswagen Group of America, Inc.	3 - Bentley	48 - Flying Spur	California + CAA Section 177 states	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No

Engine Description

Hybrid Type	IC Engine/Electric Motor	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	VW51100
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N

After Treatment Device(s) (ATD)

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

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

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Engine Configuration Number 1			
Engine Displacement (liters)	4.0	Engine Rated Horsepower	771
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	The variable valve timing is a substantial engine feature for: - Reducing engine out emissions - Optimizing full load performance - Optimizing fuel consumption - Reducing engine roughness		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	.		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Applies to DVTC+ECSA var: 0		

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Engine Configuration Number 2			
Engine Displacement (liters)	4.0	Engine Rated Horsepower	670
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	The variable valve timing is a substantial engine feature for: ? Reducing engine out emissions ? Optimizing full load performance ? Optimizing fuel consumption ? Reducing engine roughness		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	.		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Applies to DVTC+ECSA var: 1		

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	VVGA10094988	VVGA10094988	VVGA10095005	VVGA10094987	VVGA10095025	VVGA10094989	16	17	21.7	21.3	--
Electricity	VVGA10094988	VVGA10094988	VVGA10095005	VVGA10094987	VVGA10095025	VVGA10094989	--	--	--	--	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Gasoline	VVGA10094988	VVGA10095005	VVGA10094987
Electricity	VVGA10094988	VVGA10095005	VVGA10094987

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Electricity	VVGA10095170	VVGA10095171	
Gasoline	VVGA10095170	VVGA10095171	
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	370	Battery Energy Capacity	70
Battery Specific Energy	145.7	Battery Charger Type	Off-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	Yes
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	DC Permanent Magnet, brushless	Rated Motor/Generator Power	140
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
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Emission Data Vehicle Information

Vehicle ID / Configuration	EVAP-972TH-25 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SPRXV04.0PH8	Original Evaporative/Refueling Family	SPRXR0180RPH
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Porsche	Represented Test Vehicle Model	Panamera Turbo PHEV
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.997
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DVT	Rated Horsepower	512
Displacement (liters)	4		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel
Charge Air Cooler Type	Air	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5481	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	6239	N/V Ratio	20.3
Axle Ratio	3.15		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	8
Transmission Lockup	No	Creep Gear	No

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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	35.924	0.66426	0.016938	-2.709	0.33495	0.016454	14.9
US06	35.924	0.66426	0.016938	-2.709	0.33495	0.016454	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments EVAP EDV - Panamera Turbo E-Hybrid PHEV; Internal Vehicle ID: SE0208

Test #	SPRX10087689	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	SPRX10087688	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/12/2024	Fuel	Gasoline
Fuel Batch ID	W23	Fuel Calibration Number	2518
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Porsche AG, Labs and Engineering		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6581	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1332	--

Manufacturer Test Comments 2-day evap, E10 fuel; Porsche test number 24031371+24031370

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	0.1332	0.003	0.136	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1332	0.003	0.136	0.5	Pass

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	SPRX10087692	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SPRX10087690	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/10/2024	Fuel	Gasoline
Fuel Batch ID	T3E10	Fuel Calibration Number	6088
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA-Santa Oliva		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	7109	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.169	--

Manufacturer Test Comments

3-day diurnal, E10 fuel; Porsche test number LM240701703

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	0.169	0.007	0.176	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.169	0.007	0.176	0.5	Pass

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	SPRX10087693	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	SPRX10087690	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/10/2024	Fuel	Gasoline
Fuel Batch ID	T3E10	Fuel Calibration Number	6088
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA-Santa Oliva		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	7081	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

Manufacturer Test CommentsRunning Loss test, E10 fuel; Porsche test number LM2407017_03

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	0	0	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.05	Pass

Test Group		VVGAV04.0P7B	Evaporative/Refueling Family		VVGAR0180ECN			
Test #		SPRX10087694		Test Procedure		24 - Federal fuel refueling test (ORVR)		
Exhaust Test # for this Evap Test		SPRX10087688		Test Fuel Type		49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)		
Test Date		07/11/2024		Fuel		Gasoline		
Fuel Batch ID		W23		Fuel Calibration Number		2518		
Vehicle Class		N/A		DF Type		EPA Assigned		
Verify Test Lab ID		Porsche AG, Labs and Engineering						
E10 Evaporative Test Measurement Method		Calculated (1.08 x FID Total Hydrocarbons)						
Test Start Odometer Reading		6539		Odometer Units		K		
4WD Test Dyno		Yes		Diesel Adjustment Factor Usage		--		
State of Charge Delta		Yes						
Drive Cycle Speed Tolerance Criteria		Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		Road Speed Fan Usage		Yes		
Test Results								
Test Result Name			Unrounded Test Result		Verify Calculated FE Equivalent Value (miles per gallon)			
HC (Hydrocarbon for Running Loss and ORVR)			0.0023		--			
Manufacturer Test Comments								
			ORVR for evap; E10 fuel; Porsche test number 24031358					
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	0.002	0.005	0.01	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC	0.002	0.005	0.01	0.2	Pass

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
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Emission Data Vehicle Information

Vehicle ID / Configuration	BY6310L0050_2 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VVGAV04.0P7B	Original Evaporative/Refueling Family	VVGAR0180ECN
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Bentley	Represented Test Vehicle Model	Flying Spur
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	VVGAR0180ECN-001
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Drive Sources and Fuel System Details

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

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DVTC+ECSA	Rated Horsepower	591
Displacement (liters)	3.996		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel
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)	6252	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7088	N/V Ratio	19.2
Axle Ratio	3.14		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	8
Transmission Lockup	No	Creep Gear	No

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	VVGA10094988	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/21/2026	Fuel	Gasoline
Fuel Batch ID	TC0043	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4147	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

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Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.9361	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.5957	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	546.5477065	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.49	--	
FE BAG 1 (Bag 1 Fuel Economy)	15.7680097	15.7680097	
CH4 BAG 1 (Bag 1 Methane)	0.0089	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0659	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-361	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.8755	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	331.6439555	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.01	--	
FE BAG 2 (Bag 2 Fuel Economy)	26.030728	26.030728	
CH4 BAG 2 (Bag 2 Methane)	0.0008	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0006	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	122	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.5999	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	393.8628038	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.16	--	
FE BAG 3 (Bag 3 Fuel Economy)	21.905464	21.905464	
CH4 BAG 3 (Bag 3 Methane)	0.0018	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0014	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-190	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.865	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	334.4667448	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.03	--	
FE BAG 4 (Bag 4 Fuel Economy)	25.8089206	25.8089206	
CH4 BAG 4 (Bag 4 Methane)	0.0008	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0002	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	103	--	
METHANE (CH4 - Methane)	0.0027661	--	
CO (Carbon Monoxide)	0.1528869	--	

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.8600309	--
	DT-EER (Drive Trace Energy Economy Rating)	-1.2451102	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.6929297	--
	MFR FE (Manufacturer Fuel Economy)	23.7	23.7
	NOX (Nitrogen Oxide)	0.0056746	--
	N2O (Nitrous Oxide)	0.0016839	--
	HC-NM (Non-methane Hydrocarbon)	0.0128907	--
	NMOG (Non-methane organic gases)	0.0142	--
	PM (Particulate Matter)	0.0003565	--
	HC-TOTAL (Total Hydrocarbon)	0.0155702	--
	WATT-HRS (Watt Hours)	302	--
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	394	394	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	394.0543158	--	
Manufacturer Test Comments	FTP Tested as Flying Spur EDV ETW: 6500 RLHP: 16.6		

Certification Summary Information Report

Test Group		VVGAV04.0P7B			Evaporative/Refueling Family					VVGAR0180ECN		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	394	--	--	--	0.27	--	394	--	--
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0028	--	--	--	0.0026	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	N2O	0.0017	--	--	--	0.0011	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.15	--	--	--	0.16	--	0.3	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.26	--	--	--	--	--	0.3	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0142	--	1.1	--	0.0062	--	0.02	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0199	--	--	--	--	--	0.031	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0312	--	--	--	--	--	0.031	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0057	--	--	--	0.0047	--	0.01	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0004	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.15	--	--	--	0.16	--	0.3	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.26	--	--	--	--	--	0.3	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0142	--	1.1005	--	0.0062	--	0.02	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0199	--	--	--	--	--	0.031	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0312	--	--	--	--	--	0.031	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0057	--	--	--	0.0047	--	0.01	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0004	--	--	--	0	--	0	0.003	Pass

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

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	VVGA10095025	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	04/24/2026	Fuel	Gasoline
Fuel Batch ID	TC0044	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4269	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.067	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.5978	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	850.0909064	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.26	--	
FE BAG 1 (Bag 1 Fuel Economy)	10.1746068	10.1746068	
CH4 BAG 1 (Bag 1 Methane)	0.0249	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1273	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	0	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.8747	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	526.7318538	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.05	--	
FE BAG 2 (Bag 2 Fuel Economy)	16.4647389	16.4647389	
CH4 BAG 2 (Bag 2 Methane)	0.0009	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0008	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	0	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.5954	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	511.0938582	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.16	--	
FE BAG 3 (Bag 3 Fuel Economy)	16.9624529	16.9624529	
CH4 BAG 3 (Bag 3 Methane)	0.0024	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0019	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	0	--	
METHANE (CH4 - Methane)	0.0062962	--	
CO (Carbon Monoxide)	0.3258519	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1472946	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.0871743	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.0459049	--	
NOX (Nitrogen Oxide)	0.0143893	--	
N2O (Nitrous Oxide)	0.0036441	--	
HC-NM (Non-methane Hydrocarbon)	0.0247899	--	
NMOG (Non-methane organic gases)	0.0272	--	

Certification Summary Information Report

Test Group		VVGAV04.0P7B			Evaporative/Refueling Family				VVGAR0180ECN				
		PM (Particulate Matter)		0.0001155		--							
		HC-TOTAL (Total Hydrocarbon)		0.0308891		--							
		WATT-HRS (Watt Hours)		0		--							
		Test Result Name		Unrounded Test Result		Verify Calculated CO2							
		Carbon dioxide		589.3868344		--							
Manufacturer Test Comments		COLDCO Tested as Flying Spur EDV ETW: 6500 RLHP: 16.6 WATT-HRs inputs were not measured (not required)											
Certification Region		Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed		50,000 miles	Federal Tier 3 Bin 50	CO	0.33	--	--	--	0.16	--	0.5	10.0	Pass
Fed		120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.02	--	--	--	0.0056	--	0	0.3	Pass
CA		50,000 miles	California LEV-III ULEV50	CO	0.33	--	--	--	0.16	--	0.5	10.0	Pass

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	VVGA10094989	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/21/2026	Fuel	Gasoline
Fuel Batch ID	TC0043	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4162	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
ACT-DISTANCE (Actual Distance Driven (miles))	10.2706	--
METHANE (CH4 - Methane)	0.0003505	--
CO (Carbon Monoxide)	0.0101838	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.4877907	--
DT-EER (Drive Trace Energy Economy Rating)	-1.0788111	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2090498	--
MFR FE (Manufacturer Fuel Economy)	33.6	33.6
NOX (Nitrogen Oxide)	0.0029753	--
N2O (Nitrous Oxide)	0.0000647	--
HC-NM (Non-methane Hydrocarbon)	0.000473	--
NMOG (Non-methane organic gases)	0.0005	--
PM (Particulate Matter)	0.0001678	--
HC-TOTAL (Total Hydrocarbon)	0.0008125	--
WATT-HRS (Watt Hours)	-24	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	278	278

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	278.3489196	--

Manufacturer Test Comments

HWY Tested as Flying Spur EDV ETW: 6500 RLHP: 16.6

Certification Summary Information Report

Test Group		VVGAV04.0P7B				Evaporative/Refueling Family				VVGAR0180ECN		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	278	--	--	--	0.27	--	278	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0005	--	1.03	--	0.0062	--	0.007	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0035	--	--	--	--	--	0.014	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.003	--	--	--	0.0047	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0005	--	1.03	--	0.0062	--	0.007	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0035	--	--	--	--	--	0.014	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.003	--	--	--	0.0047	--	0.008	99.999	Pass

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

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	VVGA10095005	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/27/2026	Fuel	Gasoline
Fuel Batch ID	TC0043	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4310	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN	
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
	ACT-DISTANCE (Actual Distance Driven (miles))	8.0183	--	
	ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.7943	--	
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	655.8382575	--	
	CO BAG 1 (Bag 1 Carbon Monoxide)	0.01	--	
	FE BAG 1 (Bag 1 Fuel Economy)	13.1623731	13.1623731	
	CH4 BAG 1 (Bag 1 Methane)	0.0097	--	
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0076	--	
	WATT-HRS BAG 1 (Bag 1 Watt Hours)	-224	--	
	ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.2239	--	
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	366.8065125	--	
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.05	--	
	FE BAG 2 (Bag 2 Fuel Economy)	23.5296913	23.5296913	
	CH4 BAG 2 (Bag 2 Methane)	0.0037	--	
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0047	--	
	WATT-HRS BAG 2 (Bag 2 Watt Hours)	21	--	
	METHANE (CH4 - Methane)	0.0050059	--	
	CO (Carbon Monoxide)	0.0431885	--	
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2629095	--	
	DT-EER (Drive Trace Energy Economy Rating)	-2.0798914	--	
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.3538179	--	
	NOX (Nitrogen Oxide)	0.0255783	--	
	N2O (Nitrous Oxide)	0.0006472	--	
	HC-NM (Non-methane Hydrocarbon)	0.0052401	--	
	NMOG (Non-methane organic gases)	0.0054	--	
	PM (Particulate Matter)	0.0003792	--	
	HC-TOTAL (Total Hydrocarbon)	0.0100893	--	
	WATT-HRS (Watt Hours)	-203	--	
	Test Result Name	Unrounded Test Result	Verify Calculated CO2	
	Carbon dioxide	431.4860479	--	
	Manufacturer Test Comments US06 Tested as Flying Spur EDV ETW: 6500 RLHP: 16.6			

Certification Summary Information Report

Test Group		VVGAV04.0P7B				Evaporative/Refueling Family				VVGAR0180ECN		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.04	--	--	--	0.16	--	0.2	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0054	--	1.03	--	0.0062	--	0.012	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0256	--	--	--	0.0047	--	0.03	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0004	--	--	--	0	--	0	0.006	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.04	--	--	--	0.16	--	0.2	99.9	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0054	--	1.03	--	0.0062	--	0.012	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0256	--	--	--	0.0047	--	0.03	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0004	--	--	--	0	--	0	0.006	Pass

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	VVGA10094987	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/21/2026	Fuel	Gasoline
Fuel Batch ID	TC0043	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4198	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
ACT-DISTANCE (Actual Distance Driven (miles))	3.5896	--
METHANE (CH4 - Methane)	0.0033987	--
CO (Carbon Monoxide)	0.0991161	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.8115441	--
DT-EER (Drive Trace Energy Economy Rating)	-0.9720445	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.6804555	--
NOX (Nitrogen Oxide)	0.0110672	--
N2O (Nitrous Oxide)	0.003105	--
HC-NM (Non-methane Hydrocarbon)	0.0014515	--
NMOG (Non-methane organic gases)	0.0015	--
PM (Particulate Matter)	0.0005248	--
HC-TOTAL (Total Hydrocarbon)	0.0047439	--
WATT-HRS (Watt Hours)	89	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	476.7955188	--

Manufacturer Test Comments

SC03 Tested as Flying Spur EDV ETW: 6500 RLHP: 16.6

Certification Summary Information Report

Test Group		VVGAV04.0P7B			Evaporative/Refueling Family					VVGAR0180ECN		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.1	--	--	--	0.16	--	0.3	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0015	--	1.03	--	0.0062	--	0.008	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0111	--	--	--	0.0047	--	0.016	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.1	--	--	--	0.16	--	0.3	99.9	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0015	--	1.03	--	0.0062	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0111	--	--	--	0.0047	--	0.016	99.999	Pass

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	VVGA10095170	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/03/2026	Fuel	N/A
Fuel Batch ID	TC0045	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4987	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	25.082
Charge Depleting Range (Calculated miles)	53.749	Charge Depleting Range (Actual miles)	53.25
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	53.25	Equivalent All Electric Range (miles)	53.749
Number of Charge Depleting Bags/Phases Conducted	10	Transition Bag/Phase Number	8
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.48</td></tr><tr><td>Average System Voltage</td><td>411.6</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-1.93</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2.2</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-3.23</td></tr><tr><td>Integrated Amp-hours</td><td>8.05</td></tr><tr><td>Manufacturer Fuel Economy</td><td>0</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>22.536</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>25.8</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.48	Average System Voltage	411.6	CH4 - Methane	0	Carbon Monoxide	0	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.93	Drive Trace Energy Economy Rating	-2.2	Drive Trace Inertia Work Ratio Rating	-3.23	Integrated Amp-hours	8.05	Manufacturer Fuel Economy	0	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	22.536	System Start State of Charge Watt-hours	25.8	Total Hydrocarbon	0	
	Test Result/Emission Name	Unrounded Test Result																																						
	Actual Distance Driven (miles)	7.48																																						
	Average System Voltage	411.6																																						
	CH4 - Methane	0																																						
	Carbon Monoxide	0																																						
	Carbon dioxide	0																																						
	Carbon-Related Exhaust Emissions	0																																						
	Drive Trace Absolute Speed Change Rating	-1.93																																						
	Drive Trace Energy Economy Rating	-2.2																																						
	Drive Trace Inertia Work Ratio Rating	-3.23																																						
	Integrated Amp-hours	8.05																																						
	Manufacturer Fuel Economy	0																																						
	Nitrogen Oxide	0																																						
	Non-methane Hydrocarbon	0																																						
	Non-methane organic gases	0																																						
	Non-methane organic gases plus Nitrogen Oxides	999.999																																						
	System End State of Charge Watt-hours	22.536																																						
	System Start State of Charge Watt-hours	25.8																																						
	Total Hydrocarbon	0																																						
Charge Depleting Bag/Phase #2																																								

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.48</td></tr><tr><td>Average System Voltage</td><td>401.07</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-1.3</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.473</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.162</td></tr><tr><td>Integrated Amp-hours</td><td>15.66</td></tr><tr><td>Manufacturer Fuel Economy</td><td>0</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>19.537</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>22.536</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.48	Average System Voltage	401.07	CH4 - Methane	0	Carbon Monoxide	0	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.3	Drive Trace Energy Economy Rating	-1.473	Drive Trace Inertia Work Ratio Rating	-2.162	Integrated Amp-hours	15.66	Manufacturer Fuel Economy	0	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	19.537	System Start State of Charge Watt-hours	22.536	Total Hydrocarbon	0	
	Test Result/Emission Name	Unrounded Test Result																																						
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	System Start State of Charge Watt-hours	22.536																																						
	Total Hydrocarbon	0																																						
Charge Depleting Bag/Phase #3																																								

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.47	
	Average System Voltage	392.01	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-1.47	
	Drive Trace Energy Economy Rating	-2.048	
	Drive Trace Inertia Work Ratio Rating	-2.442	
	Integrated Amp-hours	23.31	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	16.592	
	System Start State of Charge Watt-hours	19.537	
	Total Hydrocarbon	0	
	Charge Depleting Bag/Phase #4		

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.48	
	Average System Voltage	381.82	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	1.06	
	Drive Trace Energy Economy Rating	-1.329	
	Drive Trace Inertia Work Ratio Rating	1.057	
	Integrated Amp-hours	31.41	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	13.565	
	System Start State of Charge Watt-hours	16.592	
	Total Hydrocarbon	0	
	Charge Depleting Bag/Phase #5		

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.46	
	Average System Voltage	371.7	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-0.59	
	Drive Trace Energy Economy Rating	-1.533	
	Drive Trace Inertia Work Ratio Rating	-1.002	
	Integrated Amp-hours	39.39	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	10.657	
	System Start State of Charge Watt-hours	13.565	
	Total Hydrocarbon	0	
	Charge Depleting Bag/Phase #6		

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.45</td></tr><tr><td>Average System Voltage</td><td>364.15</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-1.6</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-2.21</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.775</td></tr><tr><td>Integrated Amp-hours</td><td>47.53</td></tr><tr><td>Manufacturer Fuel Economy</td><td>0</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>7.751</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>10.657</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.45	Average System Voltage	364.15	CH4 - Methane	0	Carbon Monoxide	0	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.6	Drive Trace Energy Economy Rating	-2.21	Drive Trace Inertia Work Ratio Rating	-2.775	Integrated Amp-hours	47.53	Manufacturer Fuel Economy	0	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	7.751	System Start State of Charge Watt-hours	10.657	Total Hydrocarbon	0	
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	System Start State of Charge Watt-hours	10.657																																						
	Total Hydrocarbon	0																																						
Charge Depleting Bag/Phase #7																																								

Charge Depleting Bag/Phase #7

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
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	System End State of Charge Watt-hours	4.799																																						
	System Start State of Charge Watt-hours	7.751																																						
	Total Hydrocarbon	0																																						
Charge Depleting Bag/Phase #8																																								

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
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	System Start State of Charge Watt-hours	4.799																																						
	Total Hydrocarbon	0.05																																						
Charge Depleting Bag/Phase #9																																								

Charge Depleting Bag/Phase #9

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
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	System Start State of Charge Watt-hours	4.293																																						
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Charge Depleting Bag/Phase #10																																								

Charge Depleting Bag/Phase #10

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.47</td></tr><tr><td>Average System Voltage</td><td>354.58</td></tr><tr><td>CH4 - Methane</td><td>0.01</td></tr><tr><td>Carbon Monoxide</td><td>0.19</td></tr><tr><td>Carbon dioxide</td><td>354.51</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>355</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-1.3</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.435</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.214</td></tr><tr><td>Integrated Amp-hours</td><td>58.06</td></tr><tr><td>Manufacturer Fuel Economy</td><td>25.05</td></tr><tr><td>Nitrogen Oxide</td><td>0.01</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0.01</td></tr><tr><td>Non-methane organic gases</td><td>0.0104</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>4.308</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>4.307</td></tr><tr><td>Total Hydrocarbon</td><td>0.01</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.47	Average System Voltage	354.58	CH4 - Methane	0.01	Carbon Monoxide	0.19	Carbon dioxide	354.51	Carbon-Related Exhaust Emissions	355	Drive Trace Absolute Speed Change Rating	-1.3	Drive Trace Energy Economy Rating	-1.435	Drive Trace Inertia Work Ratio Rating	-2.214	Integrated Amp-hours	58.06	Manufacturer Fuel Economy	25.05	Nitrogen Oxide	0.01	Non-methane Hydrocarbon	0.01	Non-methane organic gases	0.0104	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	4.308	System Start State of Charge Watt-hours	4.307	Total Hydrocarbon	0.01	
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	Drive Trace Energy Economy Rating	-1.435																																						
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	System End State of Charge Watt-hours	4.308																																						
	System Start State of Charge Watt-hours	4.307																																						
	Total Hydrocarbon	0.01																																						
Manufacturer Test Comments		MY2027 Bentley Flying Spur Plug-In Hybrid - Charge Depleting UDDS. WH entered as kWh																																						

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Test #	VVGA10095171	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/04/2026	Fuel	N/A
Fuel Batch ID	TC0045	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Volkswagen Test Center Oxnard		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5061	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	24.1949
Charge Depleting Range (Calculated miles)	61.65	Charge Depleting Range (Actual miles)	62.39
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	62.39	Equivalent All Electric Range (miles)	61.65
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	7
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.29</td></tr><tr><td>Average System Voltage</td><td>406.45</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-2.27</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.855</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.615</td></tr><tr><td>Integrated Amp-hours</td><td>9.72</td></tr><tr><td>Manufacturer Fuel Economy</td><td>0</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>21.076</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>25</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.29	Average System Voltage	406.45	CH4 - Methane	0	Carbon Monoxide	0	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-2.27	Drive Trace Energy Economy Rating	-0.855	Drive Trace Inertia Work Ratio Rating	-2.615	Integrated Amp-hours	9.72	Manufacturer Fuel Economy	0	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	21.076	System Start State of Charge Watt-hours	25	Total Hydrocarbon	0	
	Test Result/Emission Name	Unrounded Test Result																																						
	Actual Distance Driven (miles)	10.29																																						
	Average System Voltage	406.45																																						
	CH4 - Methane	0																																						
	Carbon Monoxide	0																																						
	Carbon dioxide	0																																						
	Carbon-Related Exhaust Emissions	0																																						
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	Nitrogen Oxide	0																																						
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	Non-methane organic gases	0																																						
	Non-methane organic gases plus Nitrogen Oxides	999.999																																						
	System End State of Charge Watt-hours	21.076																																						
	System Start State of Charge Watt-hours	25																																						
	Total Hydrocarbon	0																																						
Charge Depleting Bag/Phase #2																																								

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.28	
	Average System Voltage	394.04	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-2.31	
	Drive Trace Energy Economy Rating	-0.869	
	Drive Trace Inertia Work Ratio Rating	-2.619	
	Integrated Amp-hours	18.6	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	17.605	
	System Start State of Charge Watt-hours	21.076	
	Total Hydrocarbon	0	
	Charge Depleting Bag/Phase #3		

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.27	
	Average System Voltage	383.83	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-1.03	
	Drive Trace Energy Economy Rating	-0.979	
	Drive Trace Inertia Work Ratio Rating	-0.783	
	Integrated Amp-hours	27.53	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	14.205	
	System Start State of Charge Watt-hours	17.605	
	Total Hydrocarbon	0	
	Charge Depleting Bag/Phase #4		

Charge Depleting Bag/Phase #4

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.27</td></tr><tr><td>Average System Voltage</td><td>372.1</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.61</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.827</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.33</td></tr><tr><td>Integrated Amp-hours</td><td>36.69</td></tr><tr><td>Manufacturer Fuel Economy</td><td>0</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>10.823</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>14.205</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.27	Average System Voltage	372.1	CH4 - Methane	0	Carbon Monoxide	0	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.61	Drive Trace Energy Economy Rating	-0.827	Drive Trace Inertia Work Ratio Rating	-0.33	Integrated Amp-hours	36.69	Manufacturer Fuel Economy	0	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	10.823	System Start State of Charge Watt-hours	14.205	Total Hydrocarbon	0	
	Test Result/Emission Name	Unrounded Test Result																																						
	Actual Distance Driven (miles)	10.27																																						
	Average System Voltage	372.1																																						
	CH4 - Methane	0																																						
	Carbon Monoxide	0																																						
	Carbon dioxide	0																																						
	Carbon-Related Exhaust Emissions	0																																						
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	Non-methane organic gases	0																																						
	Non-methane organic gases plus Nitrogen Oxides	999.999																																						
	System End State of Charge Watt-hours	10.823																																						
	System Start State of Charge Watt-hours	14.205																																						
	Total Hydrocarbon	0																																						
Charge Depleting Bag/Phase #5																																								

Charge Depleting Bag/Phase #5

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.27	
	Average System Voltage	361.68	
	CH4 - Methane	0	
	Carbon Monoxide	0	
	Carbon dioxide	0	
	Carbon-Related Exhaust Emissions	0	
	Drive Trace Absolute Speed Change Rating	-1.43	
	Drive Trace Energy Economy Rating	-0.724	
	Drive Trace Inertia Work Ratio Rating	-1.521	
	Integrated Amp-hours	46.56	
	Manufacturer Fuel Economy	0	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0	
	Non-methane organic gases	0	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	7.294	
	System Start State of Charge Watt-hours	10.823	
	Total Hydrocarbon	0	
	Charge Depleting Bag/Phase #6		

Charge Depleting Bag/Phase #6

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.27</td></tr><tr><td>Average System Voltage</td><td>352.93</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0</td></tr><tr><td>Carbon dioxide</td><td>0</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-1.58</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.802</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-1.547</td></tr><tr><td>Integrated Amp-hours</td><td>56.19</td></tr><tr><td>Manufacturer Fuel Economy</td><td>0</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>3.929</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>7.294</td></tr><tr><td>Total Hydrocarbon</td><td>0</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.27	Average System Voltage	352.93	CH4 - Methane	0	Carbon Monoxide	0	Carbon dioxide	0	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.58	Drive Trace Energy Economy Rating	-0.802	Drive Trace Inertia Work Ratio Rating	-1.547	Integrated Amp-hours	56.19	Manufacturer Fuel Economy	0	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	3.929	System Start State of Charge Watt-hours	7.294	Total Hydrocarbon	0	
	Test Result/Emission Name	Unrounded Test Result																																						
	Actual Distance Driven (miles)	10.27																																						
	Average System Voltage	352.93																																						
	CH4 - Methane	0																																						
	Carbon Monoxide	0																																						
	Carbon dioxide	0																																						
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	Nitrogen Oxide	0																																						
	Non-methane Hydrocarbon	0																																						
	Non-methane organic gases	0																																						
	Non-methane organic gases plus Nitrogen Oxides	999.999																																						
	System End State of Charge Watt-hours	3.929																																						
	System Start State of Charge Watt-hours	7.294																																						
	Total Hydrocarbon	0																																						
Charge Depleting Bag/Phase #7																																								

Charge Depleting Bag/Phase #7

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	10.26	
	Average System Voltage	356.26	
	CH4 - Methane	0.01	
	Carbon Monoxide	0.29	
	Carbon dioxide	316.19	
	Carbon-Related Exhaust Emissions	316	
	Drive Trace Absolute Speed Change Rating	-3.29	
	Drive Trace Energy Economy Rating	-0.968	
	Drive Trace Inertia Work Ratio Rating	-3.897	
	Integrated Amp-hours	55.65	
	Manufacturer Fuel Economy	28.06	
	Nitrogen Oxide	0	
	Non-methane Hydrocarbon	0.03	
	Non-methane organic gases	0.0312	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	System End State of Charge Watt-hours	4.152	
	System Start State of Charge Watt-hours	3.929	
	Total Hydrocarbon	0.04	
	Charge Depleting Bag/Phase #8		

Charge Depleting Bag/Phase #8

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN																																					
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.28</td></tr><tr><td>Average System Voltage</td><td>357.02</td></tr><tr><td>CH4 - Methane</td><td>0</td></tr><tr><td>Carbon Monoxide</td><td>0.06</td></tr><tr><td>Carbon dioxide</td><td>275.54</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>276</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-2.33</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.241</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.363</td></tr><tr><td>Integrated Amp-hours</td><td>55.65</td></tr><tr><td>Manufacturer Fuel Economy</td><td>32.24</td></tr><tr><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td></tr><tr><td>Non-methane organic gases</td><td>0</td></tr><tr><td>Non-methane organic gases plus Nitrogen Oxides</td><td>999.999</td></tr><tr><td>System End State of Charge Watt-hours</td><td>4.167</td></tr><tr><td>System Start State of Charge Watt-hours</td><td>4.152</td></tr><tr><td>Total Hydrocarbon</td><td>0.01</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.28	Average System Voltage	357.02	CH4 - Methane	0	Carbon Monoxide	0.06	Carbon dioxide	275.54	Carbon-Related Exhaust Emissions	276	Drive Trace Absolute Speed Change Rating	-2.33	Drive Trace Energy Economy Rating	-1.241	Drive Trace Inertia Work Ratio Rating	-2.363	Integrated Amp-hours	55.65	Manufacturer Fuel Economy	32.24	Nitrogen Oxide	0	Non-methane Hydrocarbon	0	Non-methane organic gases	0	Non-methane organic gases plus Nitrogen Oxides	999.999	System End State of Charge Watt-hours	4.167	System Start State of Charge Watt-hours	4.152	Total Hydrocarbon	0.01	
	Test Result/Emission Name	Unrounded Test Result																																						
	Actual Distance Driven (miles)	10.28																																						
	Average System Voltage	357.02																																						
	CH4 - Methane	0																																						
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	Carbon-Related Exhaust Emissions	276																																						
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	Integrated Amp-hours	55.65																																						
	Manufacturer Fuel Economy	32.24																																						
	Nitrogen Oxide	0																																						
	Non-methane Hydrocarbon	0																																						
	Non-methane organic gases	0																																						
	Non-methane organic gases plus Nitrogen Oxides	999.999																																						
	System End State of Charge Watt-hours	4.167																																						
	System Start State of Charge Watt-hours	4.152																																						
	Total Hydrocarbon	0.01																																						
	Manufacturer Test Comments		MY2027 Bentley Flying Spur Plug-In Hybrid - Charge Depleting HWY. WH entered as kWh																																					

Certification Summary Information Report

Test Group	VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Fuel Properties			
Fuel Batch ID	TC0043	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/19/2025
Fuel Batch Calibration Effective Date	09/17/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.741
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.41	Fuel Carbon Mass Fraction (E10)	0.823
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	T3E10	Fuel Calibration Number	6088
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/05/2024
Fuel Batch Calibration Effective Date	07/05/2024	Fuel Batch Calibration Ineffective Date	07/05/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17730
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	TC0045	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	06/08/2024
Fuel Batch Calibration Effective Date	11/04/2024	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	0.741
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18461
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	W23	Fuel Calibration Number	2518
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/05/2024
Fuel Batch Calibration Effective Date	07/05/2024	Fuel Batch Calibration Ineffective Date	07/31/2028

Certification Summary Information Report

Test Group		VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	9.9		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17954
Fuel Net Heat of Combustion (E10) (MJ/kg)	--		Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827		Weight Fraction CO2	--
Fuel Batch ID	TC0044		Fuel Calibration Number	1
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)		Fuel Batch Calibration Date	07/22/2022
Fuel Batch Calibration Effective Date	01/25/2024		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	0.742
Fuel Ethanol Volume Percent (%)	9.7		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	42		Fuel Carbon Mass Fraction (E10)	0.833
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VVGAV04.0P7B			Evaporative/Refueling Family		VVGAR0180ECN			
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both			
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-III ULEV50			
Fuel		Gasoline			Test Procedure		Fed. fuel 50 F exh.			
Useful Life		Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles		CO	--	--	--	--	--	--	--	1.7
4,000 miles		NMOG	--	--	1.1	--	--	--	--	99.999
4,000 miles		NMOG+NOX	--	--	--	--	--	1	--	0.100
4,000 miles		NOX	--	--	--	--	--	--	--	99.999
Cert Region		Federal			Cert/In-Use Code		Both			
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 50			
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)			
Useful Life		Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles		CREE	--	--	--	--	--	--	0.27	999
120,000 miles		METHANE	--	--	--	--	--	--	0.0026	0.030
120,000 miles		N2O	--	--	--	--	--	--	0.0011	0.010
150,000 miles		CO	--	--	--	--	--	--	0.16	1.7
150,000 miles		CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles		NMOG	--	--	1.1	--	--	--	0.0062	99.999
150,000 miles		NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles		NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles		NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles		PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		VVGAV04.0P7B			Evaporative/Refueling Family			VVGAR0180ECN	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.16	99.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0062	99.999
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.27	99.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0062	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.16	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.1005	--	--	--	0.0062	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		VVGAV04.0P7B			Evaporative/Refueling Family			VVGAR0180ECN	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			CA fuel 50 Deg(F) exhaust test	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	1.7
4,000 miles	NMOG	--	--	1.1	--	--	--	--	99.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.1000
4,000 miles	NOX	--	--	--	--	--	--	--	99.999

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.16	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0056	0.3

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.16	99.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0062	99.999
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999

Certification Summary Information Report

Test Group		VVGAV04.0P7B			Evaporative/Refueling Family			VVGAR0180ECN	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0062	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.16	99.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0062	99.999
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			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	--	--	--	--	--	--	0.16	99.9
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0062	99.999
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Certification Summary Information Report

Test Group	VVGAV04.0P7B				Evaporative/Refueling Family			VVGAR0180ECN	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-III ULEV50	
Fuel	Gasoline				Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.16	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family		VVGAR0180ECN		Cert Region		Federal					
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap					
Test Procedure		Federal fuel 3-day evap									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.500		0.007	

Evaporative/Refueling Family		VVGAR0180ECN		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	--		0.050	0	

Evaporative/Refueling Family		VVGAR0180ECN		Cert Region		Federal					
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap					
Test Procedure		Federal fuel refueling test (ORVR)									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC		--		0.20		0.005	

Evaporative/Refueling Family	VVGAR0180ECN		Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both		Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.003	

Certification Summary Information Report

Test Group		VVGAV04.0P7B		Evaporative/Refueling Family		VVGAR0180ECN	
Evaporative/Refueling Family		VVGAR0180ECN		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.007		
Evaporative/Refueling Family		VVGAR0180ECN		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.003		
Evaporative/Refueling Family		VVGAR0180ECN		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.050	0		
Evaporative/Refueling Family		VVGAR0180ECN		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC	--	0.20	0.005		

Certification Summary Information Report

Test Group		VVGAV04.0P7B	Evaporative/Refueling Family	VVGAR0180ECN
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VVGAV04.0P7B	Evaporative/Refueling Family		VVGAR0180ECN
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VVGAV04.0P7B	Evaporative/Refueling Family		VVGAR0180ECN
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VVGAV04.0P7B	Evaporative/Refueling Family		VVGAR0180ECN
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	