

**Certification Summary Information Report**

<b>Manufacturer</b>	Volkswagen Group of America, Inc.	<b>Manufacturer Code</b>	VGA
<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Certificate Number</b>	VVGAJ04.0NAT-006	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	04/17/2026	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	04/17/2026	<b>Conditional Certificate</b>	No
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	04/06/2026 05:09:17 PM
<b>Model Year</b>	2027		

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test Group Information</b>			
<b>CSI Type</b>	New	<b>Running Change Reference Number</b>	--
<b>GHG Exempt Status</b>	Not Exempt		
<b>Drive Sources and Fuel(s)</b>			
<b>Drive Source #1:</b>	Electric Motor		
	<b>Fuel</b>	<b>Basic Fuel Metering System</b>	<b>Lean Burn Strategy Indicator</b>
	Electricity	--	No
<b>Drive Source #2:</b>	Combustion Engine		
	<b>Fuel</b>	<b>Basic Fuel Metering System</b>	<b>Lean Burn Strategy Indicator</b>
	Gasoline	Spark Ignition Direct fuel injection	No
<b>Hybrid Indicator</b>	Yes		
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	No
<b>Fuel Cell Indicator</b>	No	<b>EPA Vehicle Class</b>	LDV
<b>Federal Clean Fuel Vehicle</b>	No	<b>Federal Clean Fuel Vehicle Standard</b>	--
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Durability Group Name</b>	VVGAHHGNNAT	<b>Durability Group Equivalency Factor</b>	2.2
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA, CA
<b>Complies with HD GHG 2b/3 regulations?</b>	No		
<b>Introduction into Commerce Date</b>	05/04/2026	<b>CAP2000 Conditional Certificate?</b>	No
<b>Independent Commercial Importer?</b>	No	<b>Alternative Fuel Converter Certificate?</b>	No
<b>SFTP Federal Composite Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	No
<b>SFTP LEV-III Composite Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	VVGAJ03.0N7N
<b>Test Group OBD Compliance Level</b>	Partial - with deficiencies	<b>Number of Test Group OBD Deficiencies</b>	1
<b>OBD Deficiencies Comments</b>	Deficiency for non-compliance with OBDOnUDS requirements. All test groups were found to be noncompliant with the OBDOnUDS requirements, with the sole exception of the Bentley Supersports test group VVGAV04.0EAA.		
<b>Mfr Test Group Comments</b>	--		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	04/06/2026 10:55:34 AM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	Plastic				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	No	<b>Air Intake System Vapor Storage Device Description</b>	--				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	176	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	1	<b>Bleed Canister Total Working Capacity (grams)</b>	10				
<b>Mfr Evaporative/Refueling Family Comments</b>	Integrated Bleed Canister FEL 400mg (S8)						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	Yes						
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>				
VVGAR0176NCT-001	50 State	0.02	--				
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
Volkswagen Group of America, Inc.	2 - Audi	97 - S8	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Volkswagen Group of America, Inc.	2 - Audi	97 - S8	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
<b>Engine Description</b>							
<b>Hybrid Type</b>	IC Engine/Electric Motor	<b>Hybrid Description</b>	--				
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	--				
<b>Engine Block Arrangement</b>	V-shaped engine	<b>Mfr Engine Block Arrangement Description</b>	--				
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	0W40 VW50200 / VW50500				
<b>Number of Cylinders/Rotors</b>	8	<b>Mechanically Variable Compression Ratio Indicator</b>	N				

## Certification Summary Information Report

Test Group	VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
<b>After Treatment Device(s) (ATD)</b>			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
Substrate Construction	Monolith		
<b>Mfr After Treatment Device (ATD) Comments</b>			
--			
<b>Direct Ozone Reduction (DOR) Device</b>			
Not Equipped			
<b>Mfr Emission Control Device Comments</b>			
--			
<b>Engine Configuration Number 1</b>			
<b>Engine Displacement (liters)</b>	4.0	<b>Engine Rated Horsepower</b>	631
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	2
<b>Air Aspiration Device Configuration</b>	Parallel	<b>Charge Air Cooler Type</b>	Air
<b>Air Aspiration Drive Method(s)</b>	Mechanical		
<b>Cylinder Deactivation</b>	Yes		
<b>Cylinder Deactivation Description</b>	Fuel saving by reduction of active cylinders. Mechanical deactivation of 4 inlet and outlet vales with injection cut-off on these 4 cylinders.		
<b>Variable Valve Timing</b>	Yes		
<b>Variable Valve Timing System Description</b>	The variable valve timing is a substantial engine feature for: - Reducing engine out emissions - Optimizing full load performance - Optimizing fuel consumption - Reducing engine roughness Adjust the inlet and outlet camshaft position continuously between retard and advanced position.		
<b>Variable Valve Lift?</b>	No		
<b>Variable Valve Lift System Description</b>	--		
<b>Number of Knock Sensors</b>	4	<b>Number of Air/Fuel Sensors</b>	4
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--
<b>Air/Fuel Sensor # 3 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 3 Description</b>	--
<b>Air/Fuel Sensor # 4 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 4 Description</b>	--
<b>Mfr Air/Fuel Sensor Comments</b>	--		
<b>Exhaust Gas Recirculation</b>	No	<b>Cooled Exhaust Gas Recirculation</b>	No
<b>EGR Type</b>	--	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--
<b>Closed Loop Air Injection System</b>	No		
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--
<b>Mfr Engine Configuration Comments</b>	Applies to DWNA var: 0		

### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Engine Configuration Number 2</b>			
<b>Engine Displacement (liters)</b>	4.0	<b>Engine Rated Horsepower</b>	563
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	2
<b>Air Aspiration Device Configuration</b>	Parallel	<b>Charge Air Cooler Type</b>	Air
<b>Air Aspiration Drive Method(s)</b>	Mechanical		
<b>Cylinder Deactivation</b>	Yes		
<b>Cylinder Deactivation Description</b>	Fuel saving by reduction of active cylinders. Mechanical deactivation of 4 inlet and outlet vales with injection cut-off on these 4 cylinders.		
<b>Variable Valve Timing</b>	Yes		
<b>Variable Valve Timing System Description</b>	The variable valve timing is a substantial engine feature for: - Reducing engine out emissions - Optimizing full load performance - Optimizing fuel consumption - Reducing engine roughness Adjust the inlet and outlet camshaft position continuously between retard and advanced position.		
<b>Variable Valve Lift?</b>	No		
<b>Variable Valve Lift System Description</b>	--		
<b>Number of Knock Sensors</b>	4	<b>Number of Air/Fuel Sensors</b>	4
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--
<b>Air/Fuel Sensor # 3 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 3 Description</b>	--
<b>Air/Fuel Sensor # 4 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 4 Description</b>	--
<b>Mfr Air/Fuel Sensor Comments</b>	--		
<b>Exhaust Gas Recirculation</b>	No	<b>Cooled Exhaust Gas Recirculation</b>	No
<b>EGR Type</b>	--	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--
<b>Closed Loop Air Injection System</b>	No		
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--
<b>Mfr Engine Configuration Comments</b>	Applies to DWKA var: 0		

**Official Test Numbers**

Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City	EPA City	EPA	EPA	CREE
							Litmus Value	Litmus Threshold	Highway Litmus Value	Highway Litmus Threshold	
Gasoline	SVGA10086286	SVGA10085976	SVGA10085977	SVGA10085977	SVGA10085969	SVGA10085975	11.8	228.2	22.6	286.1	--
Electricity	SVGA10086286	SVGA10085976	SVGA10085977	SVGA10085977	SVGA10085969	SVGA10085975	--	--	--	--	--

**SFTP LEV-III Official Test Numbers**

Test Group Fuel	FTP	US06	SC03
Gasoline	SVGA10086286	SVGA10085976	SVGA10085977
Electricity	SVGA10086286	SVGA10085976	SVGA10085977

## Certification Summary Information Report

Test Group	VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
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	48	Battery Energy Capacity	9.5
Battery Specific Energy	50.1	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	Belt-Driven-Starter-Generator	Rated Motor/Generator Power	8
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT									
<b>Emission Data Vehicle Information</b>												
<b>Vehicle ID / Configuration</b>	RNAT-S8 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0									
<b>Original Test Group Name</b>	RVGAJ04.0NAT	<b>Original Evaporative/Refueling Family</b>	RVGAR0176NCT									
<b>Original Test Vehicle Model Year</b>	2024											
<b>Vehicle Model</b>												
<b>Represented Test Vehicle Make</b>	Audi	<b>Represented Test Vehicle Model</b>	S8									
<b>Leak Family Details</b>												
<b>Leak Family Identifier</b>	001	<b>Leak Family Name</b>	RVGAR0176NCT-001									
<b>Drive Sources and Fuel System Details</b>												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
<b>Hybrid Indicator</b>	Yes											
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--									
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	Yes									
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if 'Other'</b>	--									
<b>Off-board charge Capable Indicator</b>	No											
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	0.9813									
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
<b>Odometer Correction Units</b>	Kilometers											
<b>Engine Code</b>	DWKA	<b>Rated Horsepower</b>	563									
<b>Displacement (liters)</b>	4											
<b>Air Aspiration Method</b>	Turbocharged	<b>Air Aspiration Method, if 'Other'</b>										
<b>Number of Air Aspiration Devices</b>	2	<b>Air Aspiration Device Configuration</b>	Parallel									
<b>Charge Air Cooler Type</b>	Air	<b>Drive Mode While Testing</b>	All Wheel Drive									
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)									
<b>Curb Weight (lbs)</b>	5324	<b>Equivalent Test Weight (pounds)</b>	6000									
<b>GVWR (lbs)</b>	6393	<b>N/V Ratio</b>	25.6									
<b>Axle Ratio</b>	3.02											
<b>Transmission Type</b>	Semi-Automatic	<b># of Transmission Gears</b>	8									
<b>Transmission Lockup</b>	Yes	<b>Creeper Gear</b>	No									

### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
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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	60.62	0.2856	0.02023	5.74	0.1815	0.01682	16.7
Cold CO	66.69	0.3141	0.02225	0	0	0	N/A
US06	60.62	0.2856	0.02023	5.74	0.1815	0.01682	N/A

**Emission Control Device Comments** --  
**Manufacturer Test Vehicle Comments** Evap EDV

<b>Test #</b>	RVGA10080486	<b>Test Procedure</b>	34 - Federal fuel 3-day evap
<b>Exhaust Test # for this Evap Test</b>	RVGA10080446	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/17/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0013	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	5425	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.321	--

**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	0.321	0.025	0.346	0.4	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.321	0.025	0.346	0.4	Pass



### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>RVGA10080487</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	RVGA10080446	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/17/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0013	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	5398	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

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

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



## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT									
<b>Emission Data Vehicle Information</b>												
<b>Vehicle ID / Configuration</b>	SNAT-RSQ8perf / 0	<b>Manufacturer Vehicle Configuration Number</b>	0									
<b>Original Test Group Name</b>	SVGAJ04.0NAT	<b>Original Evaporative/Refueling Family</b>	SVGAR0182NCM									
<b>Original Test Vehicle Model Year</b>	2025											
<b>Vehicle Model</b>												
<b>Represented Test Vehicle Make</b>	Audi	<b>Represented Test Vehicle Model</b>	RS Q8 Performance									
<b>Leak Family Details</b>												
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--									
<b>Drive Sources and Fuel System Details</b>												
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Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
<b>Hybrid Indicator</b>	Yes											
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--									
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	Yes									
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if 'Other'</b>	--									
<b>Off-board charge Capable Indicator</b>	No											
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	1.0152									
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
<b>Odometer Correction Units</b>	Kilometers											
<b>Engine Code</b>	DWNA	<b>Rated Horsepower</b>	631									
<b>Displacement (liters)</b>	4											
<b>Air Aspiration Method</b>	Turbocharged	<b>Air Aspiration Method, if 'Other'</b>										
<b>Number of Air Aspiration Devices</b>	2	<b>Air Aspiration Device Configuration</b>	Parallel									
<b>Charge Air Cooler Type</b>	Air	<b>Drive Mode While Testing</b>	All Wheel Drive									
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)									
<b>Curb Weight (lbs)</b>	5523	<b>Equivalent Test Weight (pounds)</b>	6000									
<b>GVWR (lbs)</b>	6647	<b>N/V Ratio</b>	23.1									
<b>Axle Ratio</b>	3.2											
<b>Transmission Type</b>	Semi-Automatic	<b># of Transmission Gears</b>	8									
<b>Transmission Lockup</b>	Yes	<b>Creeper Gear</b>	No									

## Certification Summary Information Report

Test Group	VVGAJ04.0NAT			Evaporative/Refueling Family			VVGAR0176NCT
<b>Dynamometer Coefficients:</b>							
	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	66.89	0.1946	0.03092	7.55	-0.151	0.03059	20.5
Cold CO	73.58	0.2141	0.03401	-6.48	-0.3587	0.03417	N/A
US06	66.89	0.1946	0.03092	7.55	-0.151	0.03059	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	driven in S-Mode						

### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10085969</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/22/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5056	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>CO2 BAG 1 (Bag 1 Carbon Dioxide)</b>	840.7066606	--
<b>FE BAG 1 (Bag 1 Fuel Economy)</b>	10.2279531	10.2279531
<b>CO2 BAG 2 (Bag 2 Carbon Dioxide)</b>	859.7276582	--
<b>FE BAG 2 (Bag 2 Fuel Economy)</b>	10.0896991	10.0896991
<b>CO2 BAG 3 (Bag 3 Carbon Dioxide)</b>	670.1055749	--
<b>FE BAG 3 (Bag 3 Fuel Economy)</b>	12.9355075	12.9355075
<b>METHANE (CH4 - Methane)</b>	0.0185479	--
<b>CO (Carbon Monoxide)</b>	0.9078371	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	0.8034361	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	0.2377052	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	1.290831	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	10.8	10.8
<b>NOX (Nitrogen Oxide)</b>	0.0347052	--
<b>N2O (Nitrous Oxide)</b>	0.001327	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.159364	--
<b>NMOG (Non-methane organic gases)</b>	0.1752	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.1769081	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	804	--

**Manufacturer Test Comments**                      test performed in S-Mode 4k Cold-CO - Tested as AUDI dr. - ETW: 6000

### Certification Summary Information Report

<b>Test Group</b>	VVG AJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
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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 125	CO	0.91	--	--	--	0.11	--	1	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.16	--	--	--	0.0063	--	0.2	0.5	Pass
CA	50,000 miles	California LEV-IV ULEV125	CO	0.91	--	--	--	0.11	--	1	10.0	Pass

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10085970</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	03/13/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0020	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5357	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>CO2 BAG 1 (Bag 1 Carbon Dioxide)</b>	731.7774073	--
<b>FE BAG 1 (Bag 1 Fuel Economy)</b>	12.1556757	12.1556757
<b>CO2 BAG 2 (Bag 2 Carbon Dioxide)</b>	842.5929727	--
<b>FE BAG 2 (Bag 2 Fuel Economy)</b>	10.5984641	10.5984641
<b>CO2 BAG 3 (Bag 3 Carbon Dioxide)</b>	661.6949822	--
<b>FE BAG 3 (Bag 3 Fuel Economy)</b>	13.4815638	13.4815638
<b>CO2 BAG 4 (Bag 4 Carbon Dioxide)</b>	825.8963505	--
<b>FE BAG 4 (Bag 4 Fuel Economy)</b>	10.8121513	10.8121513
<b>METHANE (CH4 - Methane)</b>	0	--
<b>CO (Carbon Monoxide)</b>	0.5530689	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	0.6696104	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	0.5911713	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	0.8926838	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	11.7	11.7
<b>NOX (Nitrogen Oxide)</b>	0.0262008	--
<b>N2O (Nitrous Oxide)</b>	0.0004765	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.0301708	--
<b>NMOG (Non-methane organic gases)</b>	0.0311	--
<b>PM (Particulate Matter)</b>	0.0009239	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.0276489	--

### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	766	766

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	765	--

**Manufacturer Test Comments**                      GHG Test 4k FED. FUEL FTP - Tested as AUDI dr. - ETW: 6000

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 125	CREE	766	--	--	--	0.43	--	766	--	--
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0	--	--	--	0.0018	--	0.002	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0005	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.55	--	--	--	0.33	--	0.9	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0311	--	1.0991	--	0.0088	--	0.04	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0573	--	--	--	--	--	0.067	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0262	--	--	--	0.0012	--	0.027	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0009	--	--	--	0.0006	--	0.002	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.55	--	--	--	0.33	--	0.9	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0311	--	1.0991	--	0.0088	--	0.04	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0573	--	--	--	--	--	0.067	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0262	--	--	--	0.0012	--	0.027	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0009	--	--	--	0.0006	--	0.002	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**

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10085978</b>	<b>Test Procedure</b>	<b>52 - Fed. fuel 50 F exh.</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/23/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	6210	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	769.2165423	--
FE BAG 1 (Bag 1 Fuel Economy)	11.2318425	11.2318425
CO2 BAG 2 (Bag 2 Carbon Dioxide)	829.5281571	--
FE BAG 2 (Bag 2 Fuel Economy)	10.4596901	10.4596901
CO2 BAG 3 (Bag 3 Carbon Dioxide)	651.882329	--
FE BAG 3 (Bag 3 Fuel Economy)	13.3012172	13.3012172
METHANE (CH4 - Methane)	0.0078874	--
CO (Carbon Monoxide)	0.476894	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.1578344	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1517574	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.1915479	--
MFR FE (Manufacturer Fuel Economy)	11.3	11.3
NOX (Nitrogen Oxide)	0.0327882	--
HC-NM (Non-methane Hydrocarbon)	0.0386495	--
NMOG (Non-methane organic gases)	0.0425	--
HC-TOTAL (Total Hydrocarbon)	0.0452191	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	768	--

**Manufacturer Test Comments** 4k FED. FUEL 50' FTP - Tested as AUDI dr. - ETW: 6000

## Certification Summary Information Report

Test Group		VVGAJ04.0NAT				Evaporative/Refueling Family				VVGAR0176NCT		
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-IV ULEV125	CO	0.48	--	--	--	--	--	0.5	2.1	Pass
CA	4,000 miles	California LEV-IV ULEV125	NMOG	0.0425	--	1.0991	--	--	--	0.042	99.000	Pass
CA	4,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0753	--	--	--	--	--	0.075	0.250	Pass
CA	4,000 miles	California LEV-IV ULEV125	NOX	0.0328	--	--	--	--	--	0.033	99.000	Pass

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10086286</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/08/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	6240	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	676.8770507	--
FE BAG 1 (Bag 1 Fuel Economy)	12.7961784	12.7961784
CO2 BAG 2 (Bag 2 Carbon Dioxide)	795.57293	--
FE BAG 2 (Bag 2 Fuel Economy)	10.9067311	10.9067311
CO2 BAG 3 (Bag 3 Carbon Dioxide)	618.0782193	--
FE BAG 3 (Bag 3 Fuel Economy)	14.0268091	14.0268091
CO2 BAG 4 (Bag 4 Carbon Dioxide)	777.5963965	--
FE BAG 4 (Bag 4 Fuel Economy)	11.1589162	11.1589162
METHANE (CH4 - Methane)	0.0035178	--
CO (Carbon Monoxide)	0.2459062	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-4.7952	--
DT-EER (Drive Trace Energy Economy Rating)	-4.019928	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.028098	--
MFR FE (Manufacturer Fuel Economy)	12.1	12.1
NOX (Nitrogen Oxide)	0.0331081	--
N2O (Nitrous Oxide)	0.0020892	--
HC-NM (Non-methane Hydrocarbon)	0.0140642	--
NMOG (Non-methane organic gases)	0.0155	--
PM (Particulate Matter)	0.0018053	--
HC-TOTAL (Total Hydrocarbon)	0.0172096	--

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>
Carbon-Related Exhaust Emissions	717	999

<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
Carbon dioxide	717	--

**Manufacturer Test Comments**

EDV MCT MFR CONFIRMATORY RETEST - 4k FED. FUEL FTP - Tested as AUDI dr. - ETW: 6000

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 125	CREE	999	--	--	--	0.43	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0.0035	--	--	--	0.0018	--	0.005	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0021	--	--	--	0.0005	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.25	--	--	--	0.33	--	0.6	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.65	--	--	--	--	--	0.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0155	--	1.0991	--	0.0088	--	0.024	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0486	--	--	--	--	--	0.059	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0424	--	--	--	--	--	0.042	0.110	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0331	--	--	--	0.0012	--	0.034	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0018	--	--	--	0.0006	--	0.002	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.25	--	--	--	0.33	--	0.6	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0155	--	1.0991	--	0.0088	--	0.024	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0486	--	--	--	--	--	0.059	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0331	--	--	--	0.0012	--	0.034	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0018	--	--	--	0.0006	--	0.002	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

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10085971</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	03/13/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0020	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5381	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0008672	--
CO (Carbon Monoxide)	0.1584026	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7110043	--
DT-EER (Drive Trace Energy Economy Rating)	0.2006295	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.139046	--
MFR FE (Manufacturer Fuel Economy)	21.3	21.3
NOX (Nitrogen Oxide)	0.0054795	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0011419	--
NMOG (Non-methane organic gases)	0.0012	--
PM (Particulate Matter)	0.0001579	--
HC-TOTAL (Total Hydrocarbon)	0.0019969	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	419	419

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	419	--

## Manufacturer Test Comments

GHG Test 4k HWFET - Tested as AUDI dr. - ETW: 6000

### Certification Summary Information Report

Test Group		VVGAJ04.0NAT				Evaporative/Refueling Family				VVGAR0176NCT		
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 125	CREE	419	--	--	--	0.43	--	419	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0012	--	1.03	--	0.0088	--	0.01	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0067	--	--	--	--	--	0.017	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0055	--	--	--	0.0012	--	0.007	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0012	--	1.03	--	0.0088	--	0.01	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0067	--	--	--	--	--	0.017	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0055	--	--	--	0.0012	--	0.007	99.000	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10085975</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5901	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0069252	--
CO (Carbon Monoxide)	0.1449495	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.8528733	--
DT-EER (Drive Trace Energy Economy Rating)	0.0750254	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.136677	--
MFR FE (Manufacturer Fuel Economy)	21.2	21.2
NOX (Nitrogen Oxide)	0.0052432	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0083968	--
NMOG (Non-methane organic gases)	0.0086	--
PM (Particulate Matter)	0.0004374	--
HC-TOTAL (Total Hydrocarbon)	0.015225	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	409	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	409	--

## Manufacturer Test Comments

test performed in S-Mode 4k HWFET - Tested as AUDI dr. - ETW: 6000

## Certification Summary Information Report

Test Group		VVGAJ04.0NAT				Evaporative/Refueling Family				VVGAR0176NCT		
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 125	CREE	999	--	--	--	0.43	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0086	--	1.03	--	0.0088	--	0.017	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0138	--	--	--	--	--	0.024	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0052	--	--	--	0.0012	--	0.006	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0086	--	1.03	--	0.0088	--	0.017	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0138	--	--	--	--	--	0.024	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0052	--	--	--	0.0012	--	0.006	99.000	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10085976</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5933	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	880.3689434	--
FE BAG 1 (Bag 1 Fuel Economy)	9.8491361	9.8491361
CO2 BAG 2 (Bag 2 Carbon Dioxide)	475.8833427	--
FE BAG 2 (Bag 2 Fuel Economy)	18.2224908	18.2224908
METHANE (CH4 - Methane)	0.0027647	--
CO (Carbon Monoxide)	0.2353978	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.098413	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4999258	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.439742	--
MFR FE (Manufacturer Fuel Economy)	15.3	15.3
NOX (Nitrogen Oxide)	0.016413	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0071525	--
NMOG (Non-methane organic gases)	0.0074	--
PM (Particulate Matter)	0.0023592	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0236	--
HC-TOTAL (Total Hydrocarbon)	0.0098786	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	566	--

## Certification Summary Information Report

Test Group		VVGAI04.0NAT		Evaporative/Refueling Family				VVGAR0176NCT				
Manufacturer Test Comments		test performed in S-Mode 4k US06 - Tested as AUDI dr. - ETW: 6000										
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 125	CO	0.24	--	--	--	0.33	--	0.6	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0074	--	1.03	--	0.0088	--	0.016	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0164	--	--	--	0.0012	--	0.018	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0024	--	--	--	0.0006	--	0.003	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.24	--	--	--	0.33	--	0.6	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0074	--	1.03	--	0.0088	--	0.016	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0238	--	--	--	--	--	0.034	0.150	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0164	--	--	--	0.0012	--	0.018	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0024	--	--	--	0.0006	--	0.003	0.006	Pass

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Test #</b>	<b>SVGA10085977</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	04/05/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	NK0018	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	AUDI AG Neckarsulm		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	5959	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>METHANE (CH4 - Methane)</b>	0	--
<b>CO (Carbon Monoxide)</b>	0.4645761	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	-0.9371491	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	-0.1446717	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	-1.176522	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	10.9	10.9
<b>NOX (Nitrogen Oxide)</b>	0.0227137	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.000853	--
<b>NMOG (Non-methane organic gases)</b>	0.0009	--
<b>PM (Particulate Matter)</b>	0.0013045	--
<b>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</b>	0.0236	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.000088	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	792	--

## Manufacturer Test Comments

test performed in S-Mode 4k SC03 - Tested as AUDI dr. - ETW: 6000

## Certification Summary Information Report

Test Group		VVGAJ04.0NAT				Evaporative/Refueling Family				VVGAR0176NCT		
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 125	CO	0.46	--	--	--	0.33	--	0.8	99.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0009	--	1.03	--	0.0088	--	0.01	99.000	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0227	--	--	--	0.0012	--	0.024	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.46	--	--	--	0.33	--	0.8	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0009	--	1.03	--	0.0088	--	0.01	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0236	--	--	--	--	--	0.034	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0227	--	--	--	0.0012	--	0.024	99.000	Pass

## Certification Summary Information Report

Test Group	VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT									
<b>Emission Data Vehicle Information</b>												
Vehicle ID / Configuration	UC-412 / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	KVGAV02.0A7M	Original Evaporative/Refueling Family	KVGAR0150ACS									
Original Test Vehicle Model Year	2019											
<b>Vehicle Model</b>												
Represented Test Vehicle Make	AUDI	Represented Test Vehicle Model	A6 Quattro (C8)									
<b>Leak Family Details</b>												
Leak Family Identifier	--	Leak Family Name	--									
<b>Drive Sources and Fuel System Details</b>												
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	0	Odometer Correction Factor	1.0586									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Kilometers											
Engine Code	DLHB	Rated Horsepower	248									
Displacement (liters)	1.984											
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)	4156	Equivalent Test Weight (pounds)	4500									
GVWR (lbs)	--	N/V Ratio	21.4									
Axle Ratio	4.41											
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7									
Transmission Lockup	No	Creeper Gear	No									

### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
<b>Dynamometer Coefficients:</b>			
	<b>Target Coefficients</b>		<b>Set Coefficients</b>
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>
<b>City/Highway/Evap</b>	39.521	0.2532	0.017868
<b>Cold CO</b>	43.474	0.27852	0.019654
<b>US06</b>	39.521	0.2532	0.017868
	-4.833	-5.317	-4.833
	0.15554	0.17109	0.15554
	0.016296	0.017926	0.016296
	<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>		
	12.9		
	N/A		
	N/A		
<b>Emission Control Device Comments</b>	DFI/TC/CAC/TWC/WR-HO2S/HO2S		
<b>Manufacturer Test Vehicle Comments</b>	MY 2019 AUDI A6 Quattro (C8) tested as A6 Limousine with Automated Manual Selectable 7 speed - ETW: 4500		
<b>Test #</b>	<b>KVGA10058954</b>	<b>Test Procedure</b>	<b>65 - Evap Canister Bleed Test</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/03/2019	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Volkswagen AG WOB2		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	5069	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--	<b>Road Speed Fan Usage</b>	--
<b>Drive Cycle Speed Tolerance Criteria</b>	--		
<b>Test Results</b>			
	<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE Equivalent Value</b>
	<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.0164	--
<b>Manufacturer Test Comments</b>	--		

## Certification Summary Information Report

Test Group	VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>NK0018</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	07/27/2023
<b>Fuel Batch Calibration Effective Date</b>	09/01/2023	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.754
<b>Fuel Ethanol Volume Percent (%)</b>	9.7	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17936
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.825	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>NK0020</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	06/08/2023
<b>Fuel Batch Calibration Effective Date</b>	07/24/2023	<b>Fuel Batch Calibration Ineffective Date</b>	07/23/2024
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.743
<b>Fuel Ethanol Volume Percent (%)</b>	--	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18413
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.868	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>NK0013</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	06/24/2022
<b>Fuel Batch Calibration Effective Date</b>	12/13/2022	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.753
<b>Fuel Ethanol Volume Percent (%)</b>	9.8	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17949
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--

### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
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#### Consolidated List of Standards

**Exhaust Standards**

<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	California LEV-IV ULEV125
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	--	--	--	--	2.1
4,000 miles	NMOG	--	--	1.0991	--	--	--	--	99.000
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.250
4,000 miles	NOX	--	--	--	--	--	--	--	99.000

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	Federal Tier 3 Bin 125
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	CREE	--	--	--	--	--	--	0.43	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0088	99.000
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	Federal Tier 3 Bin 125
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	--	--	--	0.33	99.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0088	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.006

### Certification Summary Information Report

<b>Test Group</b>		VVGAJ04.0NAT			<b>Evaporative/Refueling Family</b>			VVGAR0176NCT		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV ULEV125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.33	2.1	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0088	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125	
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.11	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0063	0.5	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV ULEV125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.33	9.6	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0088	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.150	
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000	
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.006	

### Certification Summary Information Report

<b>Test Group</b>		VVGAJ04.0NAT			<b>Evaporative/Refueling Family</b>			VVGAR0176NCT		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV ULEV125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Federal fuel 2-day exhaust (w/can load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.33	2.1	
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0088	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125	
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000	
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.003	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV ULEV125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.11	10.0	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Federal fuel 2-day exhaust (w/can load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
120,000 miles	CREE	--	--	--	--	--	--	0.43	999	
120,000 miles	METHANE	--	--	--	--	--	--	0.0018	0.030	
120,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010	
150,000 miles	CO	--	--	--	--	--	--	0.33	2.1	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0088	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.110	
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000	
150,000 miles	PM	--	--	--	--	--	--	0.0006	0.003	

### Certification Summary Information Report

<b>Test Group</b>		VVGAJ04.0NAT			<b>Evaporative/Refueling Family</b>			VVGAR0176NCT		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0.33	99.0	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0088	99.000	
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California LEV-IV ULEV125		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0088	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125	
150,000 miles	NOX	--	--	--	--	--	--	0.0012	99.000	

**Evaporative/Refueling Standards**

<b>Evaporative/Refueling Family</b>		VVGAR0176NCT			<b>Cert Region</b>			California + CAA Section 177 states		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>			California LEV-IV Zero Evap (Option 2)		
<b>Test Procedure</b>		Federal Fuel Running Loss								
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>					
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0					

<b>Evaporative/Refueling Family</b>		VVGAR0176NCT			<b>Cert Region</b>			California + CAA Section 177 states		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>			California LEV-IV Zero Evap (Option 2)		
<b>Test Procedure</b>		Federal fuel refueling test (ORVR)								
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>					
Gasoline	150,000 miles	HC	--	0.20	0.025					

### Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT		
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.025
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.012
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.012
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.025

## Certification Summary Information Report

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT		
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC	--	0.20	0.025
<b>Evaporative/Refueling Family</b>	VVGAR0176NCT	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Evap Canister Bleed Test				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--

## Certification Summary Information Report

Test Group	VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours

## Certification Summary Information Report

Test Group		VVGAJ04.0NAT	Evaporative/Refueling Family		VVGAR0176NCT
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
<b>Certification Region</b>					
CA	California + CAA Section 177 states		FA	Federal	
<b>Exhaust Emission Standard Level</b>					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

## Certification Summary Information Report

Test Group		VVGAJ04.0NAT	Evaporative/Refueling Family	VVGAR0176NCT
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395			
<b>Transmission Type Code</b>				
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual	
A	Automatic	OT	Other	
AM	Automated Manual	SA	Semi-Automatic	
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
<b>Drive System Code</b>				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	

**Certification Summary Information Report**

<b>Test Group</b>	VVGAJ04.0NAT	<b>Evaporative/Refueling Family</b>	VVGAR0176NCT
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		
<b>Additional Terms and Acronyms</b>			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission