

Certification Summary Information Report

Manufacturer	Volkswagen Group of America, Inc.	Manufacturer Code	VGA
Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Certificate Number	VVGAV03.0N7M-004	CARB Executive Order #	--
Certificate Issue Date	04/15/2026	Certificate Revision Date	--
Certificate Effective Date	04/15/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/02/2026 09:26:23 PM
Model Year	2027		

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Electricity	--	No
Drive Source #2:	Combustion Engine		
	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	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VVGAHHGNNN7M	Durability Group Equivalency Factor	2.2
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	05/04/2026	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	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	SVGAT04.0NAV
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/30/2026 03:01:09 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic				
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)	176	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	10				
Mfr Evaporative/Refueling Family Comments	Integrated Bleed Canister FEL 300mg A8L 3.0 TFSI						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VVGAR0176NCS-001	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Volkswagen Group of America, Inc.	2 - Audi	94 - A8 quattro	Federal	All Wheel Drive	Semi-Automatic	8	Yes
Volkswagen Group of America, Inc.	2 - Audi	94 - A8 quattro	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	8	Yes
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	0W20 VW50800				
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N				

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
Substrate Construction			
Monolith			
Mfr After Treatment Device (ATD) Comments			
--			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			
Engine Configuration Number 1			
Engine Displacement (liters)	3.0	Engine Rated Horsepower	335
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	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 feature for: ? Reducing engine emissions ? Optimizing gas-exchange cycle ? Optimizing fuel consumption ? Reducing engine roughness ? Optimizing full load performance		
Variable Valve Lift?	Yes		
Variable Valve Lift System Description	Audi Valve Lift System		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	2
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--		
Exhaust Gas Recirculation Description if 'Other'	--		
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable		
Air Injection Type if 'Other'	--		
Mfr Engine Configuration Comments	Applies to CZSE var: 0		

Official Test Numbers										
Test Group						EPA City	EPA City	EPA	EPA	CREE
Fuel	FTP	US06	SC03	Cold CO	Highway	Litmus	Litmus	Highway	Highway	Weighting
						Value	Threshold	Value	Threshold	Factor
Electricity	SVGA10084973	SVGA10084975	SVGA10084976	SVGA10084970	SVGA10084974	--	--	--	--	--
Gasoline	SVGA10084973	SVGA10084975	SVGA10084976	SVGA10084970	SVGA10084974	16.5	228.2	32.3	286.1	--

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Electricity	SVGA10084973	SVGA10084975	SVGA10084976
Gasoline	SVGA10084973	SVGA10084975	SVGA10084976
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	48	Battery Energy Capacity	9.5
Battery Specific Energy	51	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	--		

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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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	41.7	0.0611	0.02065	5.24	-0.1605	0.02034	12.9
Cold CO	45.87	0.0672	0.02271	0	0	0	N/A
US06	41.7	0.0611	0.02065	5.24	-0.1605	0.02034	N/A

Emission Control Device Comments DFI/TC/CAC/TWC/WR-HO2S/HO2S
Manufacturer Test Vehicle Comments A6 quattro EVAP EDV

Test #	RVGA10080447	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	RVGA10080440	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/17/2023	Fuel	Gasoline
Fuel Batch ID	IG0025	Fuel Calibration Number	4
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Ingolstadt		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3351	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	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.254	--

Manufacturer Test Comments MY24 A6 quattro Evap Test 2Day

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	0.254	0.012	0.266	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.254	0.012	0.266	0.3	Pass

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	RVGA10080451	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	RVGA10080442	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/21/2023	Fuel	Gasoline
Fuel Batch ID	IG0025	Fuel Calibration Number	5
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Ingolstadt		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3627	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes	Road Speed Fan Usage	--
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.218	--

Manufacturer Test Comments MY24 A6 quattro Evap Test - 3Day

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	0.218	0.025	0.243	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.218	0.025	0.243	0.3	Pass

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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Test #	RVGA10080448	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	RVGA10080441	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	03/15/2023	Fuel	Gasoline
Fuel Batch ID	IG0025	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Ingolstadt		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	3442	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	--

Test Results

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

Manufacturer Test Comments MY24 A6 quattro Evap Test - ORVR

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC	0.02	0.025	0.04	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC	0.02	0.025	0.04	0.2	Pass

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	RVGA10080449	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	RVGA10080442	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/21/2023	Fuel	Gasoline
Fuel Batch ID	IG0025	Fuel Calibration Number	5
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Ingolstadt		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3610	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	--

Test Results

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

Manufacturer Test Comments MY24 A6 quattro Evap Test - Running Loss

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	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

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Test Group	VVGAV03.0N7M			Evaporative/Refueling Family			VVGAR0176NCS
Dynamometer Coefficients:							
	Target Coefficients			Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	59.25	0.1654	0.02094	6.64	0.0046	0.0193	16
Cold CO	65.17	0.182	0.02303	-4.76	0.112	0.02039	N/A
US06	59.25	0.1654	0.02094	6.64	0.0046	0.0193	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	Tested in S-Mode						

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084970	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/07/2024	Fuel	Gasoline
Fuel Batch ID	NK0018	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5439	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	572.8517904	--
FE BAG 1 (Bag 1 Fuel Economy)	15.06043	15.06043
CO2 BAG 2 (Bag 2 Carbon Dioxide)	601.4264978	--
FE BAG 2 (Bag 2 Fuel Economy)	14.4183381	14.4183381
CO2 BAG 3 (Bag 3 Carbon Dioxide)	472.5986716	--
FE BAG 3 (Bag 3 Fuel Economy)	18.3425677	18.3425677
METHANE (CH4 - Methane)	0.0081176	--
CO (Carbon Monoxide)	0.5179254	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.268951	--
DT-EER (Drive Trace Energy Economy Rating)	-1.17079	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.006317	--
MFR FE (Manufacturer Fuel Economy)	15.5	15.5
NOX (Nitrogen Oxide)	0.0159244	--
HC-NM (Non-methane Hydrocarbon)	0.067454	--
NMOG (Non-methane organic gases)	0.0741	--
HC-TOTAL (Total Hydrocarbon)	0.0751626	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	560	--

Manufacturer Test Comments

test performed in S-Mode 4k Cold-CO - Tested as AUDI dr. - ETW: 5500

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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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 4 Bin 70	CO	0.52	--	--	--	0.17	--	0.7	10.0	Pass
Fed	120,000 miles	Federal Tier 4 Bin 70	HC-NM	0.07	--	--	--	0.0041	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV70	CO	0.52	--	--	--	0.17	--	0.7	10.0	Pass

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084971	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/21/2024	Fuel	Gasoline
Fuel Batch ID	NK0018	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5559	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	521.1561206	--
FE BAG 1 (Bag 1 Fuel Economy)	16.6261407	16.6261407
CO2 BAG 2 (Bag 2 Carbon Dioxide)	576.3492168	--
FE BAG 2 (Bag 2 Fuel Economy)	15.0531627	15.0531627
CO2 BAG 3 (Bag 3 Carbon Dioxide)	457.0754221	--
FE BAG 3 (Bag 3 Fuel Economy)	18.9738328	18.9738328
METHANE (CH4 - Methane)	0.0021688	--
CO (Carbon Monoxide)	0.1553604	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.9436499	--
DT-EER (Drive Trace Energy Economy Rating)	-1.27945	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.04005	--
MFR FE (Manufacturer Fuel Economy)	16.3	16.3
NOX (Nitrogen Oxide)	0.0129294	--
HC-NM (Non-methane Hydrocarbon)	0.0139082	--
NMOG (Non-methane organic gases)	0.0153	--
HC-TOTAL (Total Hydrocarbon)	0.0157288	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	532	--

Manufacturer Test Comments test performed in S-Mode 4k FED. FUEL 50F FTP - Tested as AUDI dr. - ETW: 5500

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Test Group		VVGAV03.0N7M			Evaporative/Refueling Family					VVGAR0176NCS		
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 ULEV70	CO	0.16	--	--	--	--	--	0.2	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG	0.0153	--	1.0991	--	--	--	0.015	99.999	Pass
CA	4,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.02823	--	--	--	--	--	0.028	0.140	Pass
CA	4,000 miles	California LEV-IV ULEV70	NOX	0.01293	--	--	--	--	--	0.0129	99.9990	Pass

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Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084973	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/24/2024	Fuel	Gasoline
Fuel Batch ID	NK0018	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4899	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	475.8205783	--
FE BAG 1 (Bag 1 Fuel Economy)	18.2065945	18.2065945
CO2 BAG 2 (Bag 2 Carbon Dioxide)	567.5065153	--
FE BAG 2 (Bag 2 Fuel Economy)	15.2863075	15.2863075
CO2 BAG 3 (Bag 3 Carbon Dioxide)	443.4024355	--
FE BAG 3 (Bag 3 Fuel Economy)	19.5529054	19.5529054
CO2 BAG 4 (Bag 4 Carbon Dioxide)	559.5357563	--
FE BAG 4 (Bag 4 Fuel Economy)	15.5034136	15.5034136
METHANE (CH4 - Methane)	0.0014002	--
CO (Carbon Monoxide)	0.210044	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4705833	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2121755	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.9650144	--
MFR FE (Manufacturer Fuel Economy)	16.9	16.9
NOX (Nitrogen Oxide)	0.0152414	--
N2O (Nitrous Oxide)	0.0004617	--
HC-NM (Non-methane Hydrocarbon)	0.0107576	--
NMOG (Non-methane organic gases)	0.0118	--
PM (Particulate Matter)	0.0004594	--
HC-TOTAL (Total Hydrocarbon)	0.0118919	--

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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	512	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	512	--

Manufacturer Test Comments test performed in S-Mode 4k FED. FUEL FTP - Tested as AUDI dr. - ETW: 5500

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 4 Bin 70	CREE	999	--	--	--	0.22	--	999	--	--
Fed	120,000 miles	Federal Tier 4 Bin 70	METHANE	0.0014	--	--	--	0.0021	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 4 Bin 70	N2O	0.0005	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	CO	0.21	--	--	--	0.17	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	CO-COMP	0.49	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG	0.0118	--	1.0991	--	0.0058	--	0.018	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG+NOX	0.027	--	--	--	--	--	0.04	0.070	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG+NOX-COMP	0.0308	--	--	--	--	--	0.031	0.090	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NOX	0.0152	--	--	--	0.007	--	0.022	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	PM	0.0005	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.21	--	--	--	0.17	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0118	--	1.0991	--	0.0058	--	0.018	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.02704	--	--	--	--	--	0.04	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.01524	--	--	--	0.007	--	0.0222	99.9990	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0005	--	--	--	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	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084977	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	01/30/2024	Fuel	Gasoline
Fuel Batch ID	NK0020	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5209	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	487.756278	--
FE BAG 1 (Bag 1 Fuel Economy)	18.2529219	18.2529219
CO2 BAG 2 (Bag 2 Carbon Dioxide)	572.3628717	--
FE BAG 2 (Bag 2 Fuel Economy)	15.5997772	15.5997772
CO2 BAG 3 (Bag 3 Carbon Dioxide)	452.0793746	--
FE BAG 3 (Bag 3 Fuel Economy)	19.7353186	19.7353186
CO2 BAG 4 (Bag 4 Carbon Dioxide)	565.4510611	--
FE BAG 4 (Bag 4 Fuel Economy)	15.7927707	15.7927707
METHANE (CH4 - Methane)	0.0017095	--
CO (Carbon Monoxide)	0.3189297	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0919508	--
DT-EER (Drive Trace Energy Economy Rating)	-0.5231347	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.018671	--
MFR FE (Manufacturer Fuel Economy)	17.2	17.2
NOX (Nitrogen Oxide)	0.012237	--
N2O (Nitrous Oxide)	0.0002193	--
HC-NM (Non-methane Hydrocarbon)	0.0148418	--
NMOG (Non-methane organic gases)	0.0153	--
PM (Particulate Matter)	0.0004487	--
HC-TOTAL (Total Hydrocarbon)	0.0163959	--

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	521	521

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	520	--

Manufacturer Test Comments GHG Test 4k FED. FUEL FTP - Tested as AUDI dr. - ETW: 5500

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 4 Bin 70	CREE	521	--	--	--	0.22	--	521	--	--
Fed	120,000 miles	Federal Tier 4 Bin 70	METHANE	0.0017	--	--	--	0.0021	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 4 Bin 70	N2O	0.0002	--	--	--	0.0005	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	CO	0.32	--	--	--	0.17	--	0.5	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG	0.0153	--	1.0991	--	0.0058	--	0.021	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG+NOX	0.0275	--	--	--	--	--	0.04	0.070	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NOX	0.0122	--	--	--	0.007	--	0.019	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	PM	0.0004	--	--	--	0	--	0	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.32	--	--	--	0.17	--	0.5	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0153	--	1.0991	--	0.0058	--	0.021	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.02754	--	--	--	--	--	0.04	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.01224	--	--	--	0.007	--	0.0192	99.9990	Pass
CA	150,000 miles	California LEV-IV ULEV70	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	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084974	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/24/2024	Fuel	Gasoline
Fuel Batch ID	NK0018	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4922	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.124055	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1683518	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0947469	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.0116928	--
MFR FE (Manufacturer Fuel Economy)	30.6	30.6
NOX (Nitrogen Oxide)	0.0033881	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0001171	--
NMOG (Non-methane organic gases)	0.0001	--
PM (Particulate Matter)	0.0002859	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	283	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	283	--

Manufacturer Test Comments test performed in S-Mode 4k HWFET - Tested as AUDI dr. - ETW: 5500

Certification Summary Information Report

Test Group		VVGAV03.0N7M				Evaporative/Refueling Family				VVGAR0176NCS		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 4 Bin 70	CREE	999	--	--	--	0.22	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG	0.0001	--	1.03	--	0.0058	--	0.006	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG+NOX	0.0035	--	--	--	--	--	0.016	0.070	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NOX	0.0034	--	--	--	0.007	--	0.01	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0001	--	1.03	--	0.0058	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.00349	--	--	--	--	--	0.016	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.00339	--	--	--	0.007	--	0.0104	99.9990	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	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084978	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	01/30/2024	Fuel	Gasoline
Fuel Batch ID	NK0020	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5233	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.0903159	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.31873	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0077593	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.781174	--
MFR FE (Manufacturer Fuel Economy)	30.6	30.6
NOX (Nitrogen Oxide)	0.0027976	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0003161	--
NMOG (Non-methane organic gases)	0.0003	--
PM (Particulate Matter)	0.0002546	--
HC-TOTAL (Total Hydrocarbon)	0.0000559	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	292	292

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	292	--

Manufacturer Test Comments GHG Test 4k HWFET - Tested as AUDI dr. - ETW: 5500

Certification Summary Information Report

Test Group		VVGAV03.0N7M				Evaporative/Refueling Family				VVGAR0176NCS		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 4 Bin 70	CREE	292	--	--	--	0.22	--	292	--	--
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG	0.0003	--	1.03	--	0.0058	--	0.006	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG+NOX	0.0031	--	--	--	--	--	0.016	0.070	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NOX	0.0028	--	--	--	0.007	--	0.01	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0003	--	1.03	--	0.0058	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0031	--	--	--	--	--	0.016	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0028	--	--	--	0.007	--	0.0098	99.9990	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	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084975	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/24/2024	Fuel	Gasoline
Fuel Batch ID	NK0018	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4955	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	712.6226731	--
FE BAG 1 (Bag 1 Fuel Economy)	12.1576737	12.1576737
CO2 BAG 2 (Bag 2 Carbon Dioxide)	334.7340569	--
FE BAG 2 (Bag 2 Fuel Economy)	25.8769749	25.8769749
METHANE (CH4 - Methane)	0.0039259	--
CO (Carbon Monoxide)	0.4407522	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.365256	--
DT-EER (Drive Trace Energy Economy Rating)	-1.179342	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.166597	--
MFR FE (Manufacturer Fuel Economy)	20.7	20.7
NOX (Nitrogen Oxide)	0.0069049	--
N2O (Nitrous Oxide)	0.0000119	--
HC-NM (Non-methane Hydrocarbon)	0.0058938	--
NMOG (Non-methane organic gases)	0.0061	--
PM (Particulate Matter)	0.0020785	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0128	--
HC-TOTAL (Total Hydrocarbon)	0.0097648	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	418	--

Certification Summary Information Report

Test Group		VVGAV03.0N7M		Evaporative/Refueling Family				VVGAR0176NCS				
Manufacturer Test Comments		test performed in S-Mode 4k US06 - Tested as AUDI dr. - ETW: 5500										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 70	CO	0.44	--	--	--	0.17	--	0.6	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG	0.0061	--	1.03	--	0.0058	--	0.012	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NOX	0.0069	--	--	--	0.007	--	0.014	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	PM	0.0021	--	--	--	0	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.44	--	--	--	0.17	--	0.6	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0061	--	1.03	--	0.0058	--	0.012	99.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.013	--	--	--	--	--	0.026	0.084	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.0069	--	--	--	0.007	--	0.0139	99.9990	Pass

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Test #	SVGA10084976	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	01/24/2024	Fuel	Gasoline
Fuel Batch ID	NK0018	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4981	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.3181744	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.7244866	--
DT-EER (Drive Trace Energy Economy Rating)	-0.257097	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.033574	--
MFR FE (Manufacturer Fuel Economy)	15.3	15.3
NOX (Nitrogen Oxide)	0.0124562	--
N2O (Nitrous Oxide)	0.0000885	--
HC-NM (Non-methane Hydrocarbon)	0.0006568	--
NMOG (Non-methane organic gases)	0.0007	--
PM (Particulate Matter)	0.0012468	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0131	--
HC-TOTAL (Total Hydrocarbon)	0.0004247	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	567	--

Manufacturer Test Comments

test performed in S-Mode 4k SC03 - Tested as AUDI dr. - ETW: 5500

Certification Summary Information Report

Test Group		VVGAV03.0N7M			Evaporative/Refueling Family					VVGAR0176NCS		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 70	CO	0.32	--	--	--	0.17	--	0.5	99.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG	0.0007	--	1.03	--	0.0058	--	0.006	99.000	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NMOG+NOX	0.0132	--	--	--	--	--	0.026	0.070	Pass
Fed	150,000 miles	Federal Tier 4 Bin 70	NOX	0.0125	--	--	--	0.007	--	0.02	99.000	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.32	--	--	--	0.17	--	0.5	1.7	Pass

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Dynamometer Coefficients:			
	Target Coefficients		Set Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)
City/Highway/Evap	39.521	0.2532	0.017868
Cold CO	43.474	0.27852	0.019654
US06	39.521	0.2532	0.017868
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)
	-4.833	0.15554	0.016296
	-5.317	0.17109	0.017926
	-4.833	0.15554	0.016296
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients		
	12.9		
	N/A		
	N/A		
Emission Control Device Comments	DFI/TC/CAC/TWC/WR-HO2S/HO2S		
Manufacturer Test Vehicle Comments	MY 2019 AUDI A6 Quattro (C8) tested as A6 Limousine with Automated Manual Selectable 7 speed - ETW: 4500		
Test #	KVGA10058954	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/03/2019	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Volkswagen AG WOB2		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	5069	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--	Road Speed Fan Usage	--
Drive Cycle Speed Tolerance Criteria	--		
Test Results			
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0164	--
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Fuel Properties			
Fuel Batch ID	IG0025	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/24/2022
Fuel Batch Calibration Effective Date	02/15/2023	Fuel Batch Calibration Ineffective Date	02/14/2025
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17949
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	NK0018	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/27/2023
Fuel Batch Calibration Effective Date	09/01/2023	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17936
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	IG0025	Fuel Calibration Number	5
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/24/2022
Fuel Batch Calibration Effective Date	03/10/2023	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	0.753
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17949
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	NK0020	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	06/08/2023
Fuel Batch Calibration Effective Date	07/24/2023	Fuel Batch Calibration Ineffective Date	07/23/2024

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18413
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.868	Weight Fraction CO2	--
Fuel Batch ID	IG0025	Fuel Calibration Number	4
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/24/2022
Fuel Batch Calibration Effective Date	02/06/2023	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	0.753
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17949
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 4 Bin 70
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	--	--	--	--	--	--	0.17	99.0
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0058	99.000
150,000 miles	NOX	--	--	--	--	--	--	0.007	99.000
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-IV ULEV70
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	HCHO	--	--	--	--	--	--	--	0.016
4,000 miles	NMOG	--	--	1.0991	--	--	--	--	99.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.140
4,000 miles	NOX	--	--	--	--	--	--	--	99.9990

Certification Summary Information Report

Test Group		VVGAV03.0N7M			Evaporative/Refueling Family			VVGAR0176NCS		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 70		
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	--	--	--	--	--	--	0.22	999	
120,000 miles	METHANE	--	--	--	--	--	--	0.0021	0.030	
120,000 miles	N2O	--	--	--	--	--	--	0.0005	0.010	
150,000 miles	CO	--	--	--	--	--	--	0.17	1.7	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004	
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0058	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.090	
150,000 miles	NOX	--	--	--	--	--	--	0.007	99.000	
150,000 miles	PM	--	--	--	--	--	--	0	0.003	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 70		
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	--	--	--	--	--	--	0.22	999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0058	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.007	99.000	

Certification Summary Information Report

Test Group		VVGAV03.0N7M			Evaporative/Refueling Family			VVGAR0176NCS		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70		
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	--	--	--	--	--	--	0.17	9.6	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0058	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.084	
150,000 miles	NOX	--	--	--	--	--	--	0.007	99.9990	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70		
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	--	--	--	--	--	--	0.17	1.7	
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004	
150,000 miles	NMOG	--	--	1.0991	--	--	--	0.0058	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.007	99.9990	
150,000 miles	PM	--	--	--	--	--	--	0	0.003	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70		
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	--	--	--	--	--	--	0.17	1.7	
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	

Certification Summary Information Report

Test Group		VVGAV03.0N7M			Evaporative/Refueling Family			VVGAR0176NCS		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 70		
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	--	--	--	--	--	--	0.17	99.0	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0058	99.000	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.007	99.000	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70		
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	--	--	--	0.0058	99.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.070	
150,000 miles	NOX	--	--	--	--	--	--	0.007	99.9990	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70		
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	--	--	--	--	--	--	0.17	10.0	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 70		
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	--	--	--	--	--	--	0.17	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0041	0.3	

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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Evaporative/Refueling Standards

Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC	--	0.20	0.025

Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--

Evaporative/Refueling Family	VVGAR0176NCS	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	0.025

Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	--

Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS		
Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0
Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.012
Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.025
Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	Federal Federal Tier 3 Evap		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.025
Evaporative/Refueling Family	VVGAR0176NCS	Cert Region	Federal Federal Tier 3 Evap		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.012

Certification Summary Information Report

Test Group	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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		VVGAV03.0N7M	Evaporative/Refueling Family		VVGAR0176NCS
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	VVGAV03.0N7M	Evaporative/Refueling Family	VVGAR0176NCS
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	VVGAV03.0N7M	Evaporative/Refueling Family		VVGAR0176NCS
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	