

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Certificate Number	VNSXT02.0EVW-012	CARB Executive Order #	--
Certificate Issue Date	05/14/2026	Certificate Revision Date	--
Certificate Effective Date	05/14/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/01/2026 06:22:04 AM
Model Year	2027		

Test Group Information

CSI Type	Running Change	Running Change Reference Number	VT20EVW-02
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition direct & ported injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT3, LDT2
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VNSXGPGNNABW	Durability Group Equivalency Factor	1.8
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	08/06/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VNSXT01.53CF
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	Update of the OBD information with the OBD approval letter(E-26-008). Deficiency: SAE J1979-2 Implementation Deficiency and Lack of MIL Illumination for Some Safety-related Components. Other OBD Demonstration Vehicle Test Group(s) : VNSXJ02.0FVM.		
Mfr Test Group Comments	Nissan conducted FTP, HWY, US06, and SC03 usingLEV3 E10 gasoline and Cold using Cold E10 gasolinefor Litmus. Litmus result(Value / Threshold) City:17.1 / 16.3 HWY: 22.9 / 22.1 Test No: SNSX91005955(FTP), SNSX10085326(HWY),SNSX10085334(US06), SNSX10085310(SC03),SNSX10085323(Cold).Addition of new Carline (MURANO AWD).		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	04/01/2026 04:23:25 AM				
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)	158	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	0				
Mfr Evaporative/Refueling Family Comments	--						
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				
VNSXR0158PEA-001	50 State	0.02	Based on our engineering evaluation, this vehicle comply with the leak standard.				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Nissan Motor Co., Ltd.	1 - NISSAN	37 - MURANO AWD	Federal	All Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	37 - MURANO AWD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	9	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20				
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	Y				

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
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)	2.0	Engine Rated Horsepower	268
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)	Hydraulic		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	INT:ECM controlled, Motor driven EXH:ECM controlled, Oil pressure driven		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	2
Air/Fuel Sensor # 1 Type	Air fuel	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	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	For QX60 FWD, QX60 AWD		

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA								
Engine Configuration Number 2											
Engine Displacement (liters)	2.0	Engine Rated Horsepower	241								
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)	Hydraulic										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	INT:ECM controlled, Motor driven EXH:ECM controlled, Oil pressure driven										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	2	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Air fuel	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	--	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	For MURANO AWD										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	SNSX91005955	SNSX10085334	SNSX10085310	SNSX10085323	SNSX10085326	52.2	228.2	27.9	286.1	--	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP	US06	SC03								
Gasoline	SNSX91005955	SNSX10085334	SNSX10085310								

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	GQB535 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SNSXT02.0AVD	Original Evaporative/Refueling Family	SNSXR0158PFA						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	INFINITI	Represented Test Vehicle Model	QX60 AWD LUXE						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SNSXR0158PFA-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	8	Odometer Correction Factor	1.01						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AK20CAA2	Rated Horsepower	268						
Displacement (liters)	2								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4712	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	6063	N/V Ratio	23.9						
Axle Ratio	4.33								
Transmission Type	Semi-Automatic	# of Transmission Gears	9						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VNSXT02.0EVW			Evaporative/Refueling Family		VNSXR0158PEA	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	40.6	0.0788	0.03008	23.17	-0.2572	0.03138	16	
Cold CO	45.11	0.0876	0.03342	21.85	-0.4054	0.03506	N/A	
US06	40.6	0.0788	0.03008	23.17	-0.2572	0.03138	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Sport mode						

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085323	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	02/23/2024	Fuel	Gasoline
Fuel Batch ID	29HW20	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4308	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	529.43981	--
FE BAG 1 (Bag 1 Fuel Economy)	16.1	16.1
CO2 BAG 2 (Bag 2 Carbon Dioxide)	478.37684	--
FE BAG 2 (Bag 2 Fuel Economy)	18.1	18.1
CO2 BAG 3 (Bag 3 Carbon Dioxide)	389.97606	--
FE BAG 3 (Bag 3 Fuel Economy)	22.2	22.2
CO (Carbon Monoxide)	0.9148616	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.22	--
DT-EER (Drive Trace Energy Economy Rating)	-0.88	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.32	--
MFR FE (Manufacturer Fuel Economy)	18.6	18.6
HC-NM (Non-methane Hydrocarbon)	0.1131034	--
HC-TOTAL (Total Hydrocarbon)	0.1274163	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	464.6221339	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXT02.0EVW				Evaporative/Refueling Family				VNSXR0158PEA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	0.91	--	--	--	0.01	--	0.9	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.11	--	--	--	0	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV50	CO	0.91	--	--	--	0.01	--	0.9	12.5	Pass

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Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX91005955	Test Procedure	25 - California fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	06/21/2024	Fuel	Gasoline
Fuel Batch ID	26782	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5261	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	394.495697	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	428.6694031	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	365.8409119	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0032537	--
CO (Carbon Monoxide)	0.1733093	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.8182349	--
DT-EER (Drive Trace Energy Economy Rating)	0.5458167	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.4892058	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.010298	--
N2O (Nitrous Oxide)	0.0011392	--
HC-NM (Non-methane Hydrocarbon)	0.0053156	--
NMOG (Non-methane organic gases)	0.0058433	--
PM (Particulate Matter)	0.0009351	--
HC-TOTAL (Total Hydrocarbon)	0.0082129	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Certification Summary Information Report

Test Group		VNSXT02.0EVW				Evaporative/Refueling Family				VNSXR0158PEA																												
<table><tr><td colspan="4">Test Result Name</td><td colspan="4">Unrounded Test Result</td><td colspan="5">Verify Calculated CO2</td></tr><tr><td colspan="4">Carbon dioxide</td><td colspan="4">404.3371277</td><td colspan="5">--</td></tr></table>													Test Result Name				Unrounded Test Result				Verify Calculated CO2					Carbon dioxide				404.3371277				--				
Test Result Name				Unrounded Test Result				Verify Calculated CO2																														
Carbon dioxide				404.3371277				--																														
Manufacturer Test Comments		None Unrounded Result for the following test results were modified by Verify: FE BAG 1, FE BAG 3, FE BAG 2, MFR FE																																				
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail																										
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0033	--	--	--	0.0021	--	0.005	0.030	Pass																										
Fed	120,000 miles	Federal Tier 3 Bin 50	N2O	0.0011	--	--	--	0.0002	--	0.001	0.010	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.17	--	--	--	0.04	--	0.2	1.7	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.26	--	--	--	0	--	0.3	4.2	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0058	1	1.1	--	0	--	0.006	999.999	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0161	--	--	--	--	--	0.018	0.050	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0128	--	--	--	0	--	0.013	0.080	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0103	--	--	--	0.0017	--	0.012	999.999	Pass																										
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0009	--	--	--	0	--	0.001	0.003	Pass																										
CA	150,000 miles	California LEV-IV ULEV50	CO	0.17	--	--	--	0.04	--	0.2	1.7	Pass																										
CA	150,000 miles	California LEV-IV ULEV50	METHANE	0.0033	--	--	--	0.0026	--	0.006	0.030	Pass																										
CA	150,000 miles	California LEV-IV ULEV50	N2O	0.0011	--	--	--	0.0003	--	0.001	0.010	Pass																										
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0058	1	1.1	--	0	--	0.006	999.999	Pass																										
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0161	--	--	--	--	--	0.018	0.050	Pass																										
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0103	--	--	--	0.0017	--	0.012	999.999	Pass																										
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0009	--	--	--	0	--	0.001	0.003	Pass																										

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085326	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	03/08/2024	Fuel	Gasoline
Fuel Batch ID	470054	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4393	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0010798	--
CO (Carbon Monoxide)	0.1483066	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.69	--
DT-EER (Drive Trace Energy Economy Rating)	-0.09	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.5	--
MFR FE (Manufacturer Fuel Economy)	32.6	32.6
NOX (Nitrogen Oxide)	0.0020556	--
HC-NM (Non-methane Hydrocarbon)	0.0009734	--
NMOG (Non-methane organic gases)	0.0010026	--
HC-TOTAL (Total Hydrocarbon)	0.0019862	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	265.2417013	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	264.865243	--

Manufacturer Test Comments --

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Test Group		VNSXT02.0EVW			Evaporative/Refueling Family					VNSXR0158PEA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.064644	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.001	1	1.03	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0031	--	--	--	--	--	0.005	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0021	--	--	--	0.0017	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.001	1	1.03	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0031	--	--	--	--	--	0.005	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0021	--	--	--	0.0017	--	0.004	999.999	Pass

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

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Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA																											
Test #	SNSX10085333	Test Procedure	38 - CA fuel 3-day evap.																											
Exhaust Test # for this Evap Test	SNSX10085331	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline																											
Test Date	03/21/2024	Fuel	Gasoline																											
Fuel Batch ID	470054	Fuel Calibration Number	1																											
Vehicle Class	N/A	DF Type	Mfr. Determined																											
Verify Test Lab ID	560-2 Okatsukoku																													
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)																													
Test Start Odometer Reading	4650	Odometer Units	M																											
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																											
State of Charge Delta	--																													
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No																											
Test Results																														
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.2232252</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2232252	--																					
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																												
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2232252	--																												
Manufacturer Test Comments --																														
<table border="1"> <tr> <th>Certification Region</th> <th>Useful Life</th> <th>Standard Level</th> <th>Emission Name</th> <th>Rounded Result</th> <th>Add DF</th> <th>Certification Level</th> <th>Standard</th> <th>Pass/Fail</th> </tr> <tr> <td>Fed</td> <td>150,000 miles</td> <td>Federal Tier 3 Evap</td> <td>HC-TOTAL-EQUIV</td> <td>0.2232</td> <td>0</td> <td>0.223</td> <td>0.4</td> <td>Pass</td> </tr> <tr> <td>CA</td> <td>150,000 miles</td> <td>California LEV-IV Zero Evap (Option 2)</td> <td>HC-TOTAL-EQUIV</td> <td>0.2232</td> <td>0</td> <td>0.223</td> <td>0.4</td> <td>Pass</td> </tr> </table>				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	0.2232	0	0.223	0.4	Pass	CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2232	0	0.223	0.4	Pass
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	0.2232	0	0.223	0.4	Pass																						
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2232	0	0.223	0.4	Pass																						

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX91005963	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	SNSX91005955	Test Fuel Type	47 - CARB LEV3 E10 Premium
Test Date	06/21/2024	Fuel	Gasoline
Fuel Batch ID	26782	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	5272	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.214704	--

Manufacturer Test Comments Hot_Soak_HC_(g) = 0.031294, Diurnal (gHC) = 0.183410

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	0.2147	0	0.215	0.4	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2147	0	0.215	0.4	Pass

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085332	Test Procedure	37 - California Fuel Running Loss
Exhaust Test # for this Evap Test	SNSX10085331	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	03/21/2024	Fuel	Gasoline
Fuel Batch ID	470054	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4633	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0000449	--

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	0.01	Pass

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085334	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	03/25/2024	Fuel	Gasoline
Fuel Batch ID	470054	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4650	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	624.67405	--
FE BAG 1 (Bag 1 Fuel Economy)	13.8	13.8
CO2 BAG 2 (Bag 2 Carbon Dioxide)	352.085	--
FE BAG 2 (Bag 2 Fuel Economy)	24.6	24.6
CO (Carbon Monoxide)	0.1590123	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.82	--
DT-EER (Drive Trace Energy Economy Rating)	-1.3	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.07	--
MFR FE (Manufacturer Fuel Economy)	21	21
NOX (Nitrogen Oxide)	0.0053727	--
HC-NM (Non-methane Hydrocarbon)	0.0015463	--
NMOG (Non-methane organic gases)	0.0015927	--
PM (Particulate Matter)	0.0014459	--
HC-TOTAL (Total Hydrocarbon)	0.0008613	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	412.1857912	--

Manufacturer Test Comments

--

Certification Summary Information Report

Test Group		VNSXT02.0EVW				Evaporative/Refueling Family				VNSXR0158PEA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.159	--	--	--	0.04	--	0.199	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0016	1	1.03	--	0	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0054	--	--	--	0.0017	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0014	--	--	--	0	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.16	--	--	--	0.04	--	0.2	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0016	1	1.03	--	0	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.007	--	--	--	--	--	0.009	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0054	--	--	--	0.0017	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0014	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085310	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	03/08/2024	Fuel	Gasoline
Fuel Batch ID	470054	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4438	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0.3067143	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.83	--
DT-EER (Drive Trace Energy Economy Rating)	0.47	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.71	--
MFR FE (Manufacturer Fuel Economy)	18.1	18.1
NOX (Nitrogen Oxide)	0.0066067	--
HC-NM (Non-methane Hydrocarbon)	0.0026765	--
NMOG (Non-methane organic gases)	0.0027568	--
HC-TOTAL (Total Hydrocarbon)	0.0025477	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	476.9865032	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXT02.0EVW				Evaporative/Refueling Family				VNSXR0158PEA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.3067	--	--	--	0.04	--	0.347	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0028	1	1.03	--	0	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0066	--	--	--	0.0017	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.31	--	--	--	0.04	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0028	1	1.03	--	0	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0094	--	--	--	--	--	0.011	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0066	--	--	--	0.0017	--	0.008	999.999	Pass

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085471	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/13/2023	Fuel	Gasoline
Fuel Batch ID	WE3A07	Fuel Calibration Number	9999
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9999	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0148	--

Manufacturer Test Comments

Vehicle ID, Vehicle Configuration Number and Drive Cycle Speed Tolerance Criteria are EDV information. Test Start Odometer Reading is entered for dummy.

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	0.0148	0	0.015	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0148	0	0.015	0.02	Pass

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA					
Emission Data Vehicle Information								
Vehicle ID / Configuration	GQB535 / 1	Manufacturer Vehicle Configuration Number	1					
Original Test Group Name	SNSXT02.0AVD	Original Evaporative/Refueling Family	SNSXR0158PFA					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	INFINITI	Represented Test Vehicle Model	QX60 AWD LUXE					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	SNSXR0158PFA-001					
Drive Sources and Fuel System Details								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	8	Odometer Correction Factor	1.01					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	AK20CAA2	Rated Horsepower	268					
Displacement (liters)	2							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single					
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	4712	Equivalent Test Weight (pounds)	5000					
GVWR (lbs)	6063	N/V Ratio	23.9					
Axle Ratio	4.33							
Transmission Type	Semi-Automatic	# of Transmission Gears	9					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	40.6	0.0788	0.03008					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	23.17	-0.2572	0.03138					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	16							
Emission Control Device Comments	--							

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Manufacturer Test Vehicle Comments	Sport mode		
Test #	SNSX10085327	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	SNSX10085325	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	03/15/2024	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4488	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0683558	--

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	0.068	0.019	0.09	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.068	0.019	0.09	0.2	Pass

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
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Emission Data Vehicle Information

Vehicle ID / Configuration	GQB535 / 2	Manufacturer Vehicle Configuration Number	2
Original Test Group Name	SNSXT02.0AVD	Original Evaporative/Refueling Family	SNSXR0158PFA
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	INFINITI	Represented Test Vehicle Model	QX60 AWD LUXE
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	SNSXR0158PFA-001
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	8	Odometer Correction Factor	1.01
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AK20CAA2	Rated Horsepower	268
Displacement (liters)	2		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	4712	Equivalent Test Weight (pounds)	5000
GVWR (lbs)	6063	N/V Ratio	23.9
Axle Ratio	4.33		
Transmission Type	Semi-Automatic	# of Transmission Gears	9
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	40.6	0.0788	0.03008	23.17	-0.2572	0.03138	16
US06	40.6	0.0788	0.03008	23.17	-0.2572	0.03138	N/A

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Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085335	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	03/29/2024	Fuel	Gasoline
Fuel Batch ID	610420	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4829	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	338.74422	--
FE BAG 1 (Bag 1 Fuel Economy)	26.2	26.2
CO2 BAG 2 (Bag 2 Carbon Dioxide)	315.29263	--
FE BAG 2 (Bag 2 Fuel Economy)	28.3	28.3
CO2 BAG 3 (Bag 3 Carbon Dioxide)	303.73572	--
FE BAG 3 (Bag 3 Fuel Economy)	29.3	29.3
METHANE (CH4 - Methane)	0.0029789	--
CO (Carbon Monoxide)	0.1692566	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.95	--
DT-EER (Drive Trace Energy Economy Rating)	-0.67	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.67	--
MFR FE (Manufacturer Fuel Economy)	28.1	28.1
NOX (Nitrogen Oxide)	0.0122742	--
HC-NM (Non-methane Hydrocarbon)	0.0052683	--
NMOG (Non-methane organic gases)	0.0054274	--
HC-TOTAL (Total Hydrocarbon)	0.0081395	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	317.2927942	317

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	316.9818347	--

Certification Summary Information Report

Test Group				VNSXT02.0EVW		Evaporative/Refueling Family				VNSXR0158PEA		
Manufacturer Test Comments				--								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	317	--	--	--	0.064644	--	317	--	--

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	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Test #	SNSX10085336	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/29/2024	Fuel	Gasoline
Fuel Batch ID	610420	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4840	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0009685	--
CO (Carbon Monoxide)	0.0278868	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.97	--
DT-EER (Drive Trace Energy Economy Rating)	-0.67	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.48	--
MFR FE (Manufacturer Fuel Economy)	38.4	38.4
NOX (Nitrogen Oxide)	0.0030653	--
HC-NM (Non-methane Hydrocarbon)	0.0009291	--
NMOG (Non-methane organic gases)	0.000957	--
HC-TOTAL (Total Hydrocarbon)	0.0018625	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	232.0531641	232

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	232.4535872	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXT02.0EVW				Evaporative/Refueling Family				VNSXR0158PEA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	232	--	--	--	0.064644	--	232	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.001	1	1.03	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0041	--	--	--	--	--	0.006	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0031	--	--	--	0.0017	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.001	1	1.03	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0041	--	--	--	--	--	0.006	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0031	--	--	--	0.0017	--	0.005	999.999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Fuel Properties			
Fuel Batch ID	610420	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	01/25/2024
Fuel Batch Calibration Effective Date	01/25/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18432
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	Weight Fraction CO2	--
Fuel Batch ID	470054	Fuel Calibration Number	1
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	05/23/2022
Fuel Batch Calibration Effective Date	05/23/2022	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	0.748
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17952
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	29HW20	Fuel Calibration Number	1
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	12/19/2023
Fuel Batch Calibration Effective Date	12/19/2023	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	0.742
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17811
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	WE3A07	Fuel Calibration Number	9999
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	05/11/2023
Fuel Batch Calibration Effective Date	05/11/2023	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	--
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	26782	Fuel Calibration Number	1
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	09/05/2018
Fuel Batch Calibration Effective Date	09/05/2018	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	0.743
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18025
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--
Fuel Batch ID	490337	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/11/2024
Fuel Batch Calibration Effective Date	03/11/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17890
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.821	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VNSXT02.0EVW			Evaporative/Refueling Family		VNSXR0158PEA		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level		California LEV-IV ULEV50		
Fuel		Gasoline			Test Procedure		SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.04	1.7
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level		Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure		California 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	METHANE	--	--	--	--	--	--	0.0021	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0002	0.010
150,000 miles	CO	--	--	--	--	--	--	0.04	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.1	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		VNSXT02.0EVW			Evaporative/Refueling Family			VNSXR0158PEA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV ULEV50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.064644	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.01	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV ULEV50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.01	12.5

Certification Summary Information Report

Test Group		VNSXT02.0EVW			Evaporative/Refueling Family			VNSXR0158PEA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-IV ULEV50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.04	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.064644	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.04	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Certification Summary Information Report

Test Group	VNSXT02.0EVW				Evaporative/Refueling Family			VNSXR0158PEA		
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert		
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				Standard Level			California LEV-IV ULEV50		
Fuel	Gasoline				Test Procedure			California 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	--	--	--	--	--	--	0.04	1.7
150,000 miles	METHANE	--	--	--	--	--	--	0.0026	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0003	0.010
150,000 miles	NMOG	--	1	1.1	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region	Federal				Cert/In-Use Code			Cert		
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)				Standard Level			Federal Tier 3 Bin 50		
Fuel	Gasoline				Test Procedure			SC03		

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.04	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999

Evaporative/Refueling Standards										
Evaporative/Refueling Family	VNSXR0158PEA				Cert Region			California + CAA Section 177 states		
Cert/In-Use Code	Cert				Standard Level			California LEV-IV Zero Evap (Option 2)		
Test Procedure	California fuel 2-day evap									

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0

Certification Summary Information Report

Test Group		VNSXT02.0EVW		Evaporative/Refueling Family		VNSXR0158PEA	
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0		
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.01	0		
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0		
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		Federal	
Cert/In-Use Code		Cert		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	0		
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.019		

Certification Summary Information Report

Test Group		VNSXT02.0EVW		Evaporative/Refueling Family		VNSXR0158PEA	
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California 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		VNSXR0158PEA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0		
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0		
Evaporative/Refueling Family		VNSXR0158PEA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.019		

Certification Summary Information Report

Test Group		VNSXT02.0EVW	Evaporative/Refueling Family	VNSXR0158PEA
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		VNSXT02.0EVW	Evaporative/Refueling Family		VNSXR0158PEA
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		VNSXT02.0EVW	Evaporative/Refueling Family		VNSXR0158PEA
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		VNSXT02.0EVW	Evaporative/Refueling Family		VNSXR0158PEA
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	