

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Certificate Number	VNSXJ02.0FVM-005	CARB Executive Order #	--
Certificate Issue Date	03/10/2026	Certificate Revision Date	--
Certificate Effective Date	03/10/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/01/2026 04:44:12 AM
Model Year	2027		

Test Group Information

CSI Type	Running Change	Running Change Reference Number	VJ20FVM-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, LDV, 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	VNSXGPGNNAAS	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 using Tier3 E10 gasoline and Cold using Cold E10 gasoline for Litmus. Litmus result(Value / Threshold) City: 17.1 / 16.3 HWY: 21.6 / 21.3 Test No: TNSX91006660(FTP), TNSX91006663(HWY), TNSX91006664(US06), TNSX10091617(SC03), TNSX10091631(Cold).Addition of new Carline (NISSAN MURANO AWD).		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	12/01/2025 02:29:20 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				
VNSXR0158PMA-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.	2 - INFINITI	141 - QX60 AWD	Federal	All Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	2 - INFINITI	140 - QX60 FWD	Federal	2-Wheel Drive, Front	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	2 - INFINITI	140 - QX60 FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	2 - INFINITI	141 - QX60 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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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
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)	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, QX65 AWD		

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA								
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	TNSX91006660	TNSX91006664	TNSX10091617	TNSX10091631	TNSX91006663	49.3	16.3	88.5	21.3	--	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP	US06	SC03								
Gasoline	TNSX91006660	TNSX91006664	TNSX10091617								

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA						
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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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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	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

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

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 --

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	0.5	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2232	0	0.223	0.5	Pass

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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 CommentsHot_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	0.5	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2147	0	0.215	0.5	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA					
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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA						
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									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0148</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0148	--
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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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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
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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

Emission Control Device Comments --

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA																																
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																																			
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.0683558</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)	0.0683558	--																										
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	--																																		
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.068</td><td>0.019</td><td>0.09</td><td>0.2</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>0.068</td><td>0.019</td><td>0.09</td><td>0.2</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	0.068	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 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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	GR-900 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TNSXT02.0FVY	Original Evaporative/Refueling Family	TNSXR0158PMA						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	PATHFINDER 4WD ROCK CREEK						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	TNSXR0158PMA-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	10	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	AK20CAAC	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)	4723	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	6063	N/V Ratio	23.6						
Axle Ratio	4.33								
Transmission Type	Semi-Automatic	# of Transmission Gears	9						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family		VNSXR0158PMA	
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	39.44	0.3872	0.02939	23.24	0.0311	0.03046	17.6	
Cold CO	43.82	0.4302	0.03266	18.71	0.0606	0.03354	N/A	
US06	39.44	0.3872	0.02939	23.24	0.0311	0.03046	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Sport mode.						

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX10091620	Test Procedure	49 - Quick-Driveway (QD)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/03/2025	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4363	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)	0.001738	--
CO (Carbon Monoxide)	0.1155634	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.21	--
DT-EER (Drive Trace Energy Economy Rating)	0.13	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.03	--
MFR FE (Manufacturer Fuel Economy)	22.3	22.3
NOX (Nitrogen Oxide)	0.0114692	--
HC-NM (Non-methane Hydrocarbon)	0.0065251	--
NMOG (Non-methane organic gases)	0.0071808	--
HC-TOTAL (Total Hydrocarbon)	0.0080357	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	386.6426036	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PMA		
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	150,000 miles	California LEV-IV ULEV40	NMOG	0.0072	1	1.10049	--	0.0014	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0187	--	--	--	--	--	0.02	0.052	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0115	--	--	--	0.0002	--	0.012	999.999	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX10091631	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	06/26/2025	Fuel	Gasoline
Fuel Batch ID	29HW20	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4288	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			

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA																																																																										
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>540.4535969</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>2.9595592</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>16</td><td>16</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0516026</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.2700022</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>469.9568237</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>18.6</td><td>18.6</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0010211</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>393.0114294</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>22.2</td><td>22.2</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0000911</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0004222</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0107188</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.6133206</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.62</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.24</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.74</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>18.8</td><td>18.8</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0514303</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0565985</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0613196</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	540.4535969	--	CO BAG 1 (Bag 1 Carbon Monoxide)	2.9595592	--	FE BAG 1 (Bag 1 Fuel Economy)	16	16	CH4 BAG 1 (Bag 1 Methane)	0.0516026	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.2700022	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	469.9568237	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	FE BAG 2 (Bag 2 Fuel Economy)	18.6	18.6	CH4 BAG 2 (Bag 2 Methane)	0	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0010211	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	393.0114294	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0	--	FE BAG 3 (Bag 3 Fuel Economy)	22.2	22.2	CH4 BAG 3 (Bag 3 Methane)	0.0000911	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0004222	--	METHANE (CH4 - Methane)	0.0107188	--	CO (Carbon Monoxide)	0.6133206	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.62	--	DT-EER (Drive Trace Energy Economy Rating)	0.24	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.74	--	MFR FE (Manufacturer Fuel Economy)	18.8	18.8	HC-NM (Non-methane Hydrocarbon)	0.0514303	--	NMOG (Non-methane organic gases)	0.0565985	--	HC-TOTAL (Total Hydrocarbon)	0.0613196	--	
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Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PMA		
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	0.61	--	--	--	0.02	--	0.6	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.05	--	--	--	0	--	0	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV40	CO	0.61	--	--	--	0.02	--	0.6	10.0	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX91006660	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	11/19/2025	Fuel	Gasoline
Fuel Batch ID	29858	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4722	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			

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA																																																																																			
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>408.0506287</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.621913</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0064777</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.015378</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>438.8197021</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0002815</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0005145</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>374.9157104</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0003755</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0004289</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0015922</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.1289571</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>2.3016763</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.7588413</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>3.0766144</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.006154</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0013009</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0032451</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0035666</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0013889</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.004815</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	408.0506287	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.621913	--	FE BAG 1 (Bag 1 Fuel Economy)	999	--	CH4 BAG 1 (Bag 1 Methane)	0.0064777	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.015378	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	438.8197021	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	FE BAG 2 (Bag 2 Fuel Economy)	999	--	CH4 BAG 2 (Bag 2 Methane)	0.0002815	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0005145	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	374.9157104	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0	--	FE BAG 3 (Bag 3 Fuel Economy)	999	--	CH4 BAG 3 (Bag 3 Methane)	0.0003755	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0004289	--	METHANE (CH4 - Methane)	0.0015922	--	CO (Carbon Monoxide)	0.1289571	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.3016763	--	DT-EER (Drive Trace Energy Economy Rating)	0.7588413	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.0766144	--	MFR FE (Manufacturer Fuel Economy)	999	--	NOX (Nitrogen Oxide)	0.006154	--	N2O (Nitrous Oxide)	0.0013009	--	HC-NM (Non-methane Hydrocarbon)	0.0032451	--	NMOG (Non-methane organic gases)	0.0035666	--	PM (Particulate Matter)	0.0013889	--	HC-TOTAL (Total Hydrocarbon)	0.004815	--	
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>9999.9999999</td><td>415</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	9999.9999999	415																																																																														
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Manufacturer Test Comments	None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 3, FE BAG 2, FE BAG 1																																																																																					

Manufacturer Test Comments

None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 3, FE BAG 2, FE BAG 1

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family					VNSXR0158PMA		
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	415	--	--	--	0.085424	--	415	--	--
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0016	--	--	--	0.0014	--	0.003	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	N2O	0.0013	--	--	--	0	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.13	--	--	--	0.06	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.35	--	--	--	0	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0036	1	1.09907	--	0.0014	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0098	--	--	--	--	--	0.011	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0096	--	--	--	0	--	0.01	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0062	--	--	--	0.0002	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0014	--	--	--	0.0002	--	0.002	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV40	CO	0.13	--	--	--	0.06	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV40	METHANE	0.0016	--	--	--	0.0017	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV40	N2O	0.0013	--	--	--	0	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0036	1	1.09907	--	0.0014	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0098	--	--	--	--	--	0.011	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0062	--	--	--	0.0002	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	PM	0.0014	--	--	--	0.0002	--	0.002	0.003	Pass

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

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX91006663	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	11/19/2025	Fuel	Gasoline
Fuel Batch ID	29858	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4733	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)	0.0004676	--
CO (Carbon Monoxide)	0.0106887	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.000608	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0539654	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.1064343	--
MFR FE (Manufacturer Fuel Economy)	30.9349232	--
NOX (Nitrogen Oxide)	0.0015215	--
N2O (Nitrous Oxide)	0.0001428	--
HC-NM (Non-methane Hydrocarbon)	0.0004373	--
NMOG (Non-methane organic gases)	0.0004504	--
HC-TOTAL (Total Hydrocarbon)	0.0008983	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	281

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	281.2244263	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PMA		
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	281	--	--	--	0.085424	--	281	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0005	1	1.03	--	0.0014	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.002	--	--	--	--	--	0.004	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0015	--	--	--	0.0002	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0005	1	1.03	--	0.0014	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.002	--	--	--	--	--	0.004	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0015	--	--	--	0.0002	--	0.002	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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX91006664	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	11/19/2025	Fuel	Gasoline
Fuel Batch ID	29858	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4757	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			

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA																																																																				
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>688.1928711</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.7088631</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0014828</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0004098</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>382.4552612</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.9227232</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0008067</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.00126</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0009566</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.8753003</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.0402136</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.2041172</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.0073893</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0044959</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0004392</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0010403</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0010715</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0019721</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0019835</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	688.1928711	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.7088631	--	FE BAG 1 (Bag 1 Fuel Economy)	999	--	CH4 BAG 1 (Bag 1 Methane)	0.0014828	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0004098	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	382.4552612	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.9227232	--	FE BAG 2 (Bag 2 Fuel Economy)	999	--	CH4 BAG 2 (Bag 2 Methane)	0.0008067	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.00126	--	METHANE (CH4 - Methane)	0.0009566	--	CO (Carbon Monoxide)	0.8753003	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.0402136	--	DT-EER (Drive Trace Energy Economy Rating)	0.2041172	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.0073893	--	MFR FE (Manufacturer Fuel Economy)	999	--	NOX (Nitrogen Oxide)	0.0044959	--	N2O (Nitrous Oxide)	0.0004392	--	HC-NM (Non-methane Hydrocarbon)	0.0010403	--	NMOG (Non-methane organic gases)	0.0010715	--	PM (Particulate Matter)	0.0019721	--	HC-TOTAL (Total Hydrocarbon)	0.0019835	--	
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																					
Carbon dioxide	450.2518311	--																																																																					
Manufacturer Test Comments	None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2																																																																						

Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PMA		
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	0.8753	--	--	--	0.06	--	0.935	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0011	1	1.03	--	0.0014	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0045	--	--	--	0.0002	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.002	--	--	--	0.0002	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV40	CO	0.88	--	--	--	0.06	--	0.9	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0011	1	1.03	--	0.0014	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0056	--	--	--	--	--	0.007	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0045	--	--	--	0.0002	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	PM	0.002	--	--	--	0.0002	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX10091617	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	06/13/2025	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4200	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)	0.0001362	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.83	--
DT-EER (Drive Trace Energy Economy Rating)	0.79	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.97	--
MFR FE (Manufacturer Fuel Economy)	19	19
NOX (Nitrogen Oxide)	0.0080925	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	456.3456443	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PMA		
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	--	--	--	0.06	--	0.06	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0	1	1.03	--	0.0014	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0081	--	--	--	0.0002	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	CO	0	--	--	--	0.06	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0	1	1.03	--	0.0014	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0081	--	--	--	--	--	0.01	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0081	--	--	--	0.0002	--	0.008	999.999	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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Emission Data Vehicle Information

Vehicle ID / Configuration	GR-900 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	TNSXT02.0FVY	Original Evaporative/Refueling Family	TNSXR0158PMA
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	PATHFINDER 4WD ROCK CREEK
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	TNSXR0158PMA-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 Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	10	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	AK20CAAC	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)	4723	Equivalent Test Weight (pounds)	5000
GVWR (lbs)	6063	N/V Ratio	23.6
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	39.44	0.3872	0.02939	23.24	0.0311	0.03046	17.6
US06	39.44	0.3872	0.02939	23.24	0.0311	0.03046	N/A

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	Standard mode.		

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX10091621	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	07/10/2025	Fuel	Gasoline
Fuel Batch ID	610557	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4374	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)	352.8434853	--
FE BAG 1 (Bag 1 Fuel Economy)	25.2	25.2
CO2 BAG 2 (Bag 2 Carbon Dioxide)	335.8507857	--
FE BAG 2 (Bag 2 Fuel Economy)	26.5	26.5
CO2 BAG 3 (Bag 3 Carbon Dioxide)	321.5228966	--
FE BAG 3 (Bag 3 Fuel Economy)	27.7	27.7
METHANE (CH4 - Methane)	0.0015819	--
CO (Carbon Monoxide)	0.1435847	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.77	--
DT-EER (Drive Trace Energy Economy Rating)	-0.94	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.35	--
MFR FE (Manufacturer Fuel Economy)	26.6	26.6
NOX (Nitrogen Oxide)	0.0075659	--
HC-NM (Non-methane Hydrocarbon)	0.004027	--
NMOG (Non-methane organic gases)	0.0041486	--
HC-TOTAL (Total Hydrocarbon)	0.0053565	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	335.2370895	335

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	335.4367303	--

Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PMA		
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	335	--	--	--	0.085424	--	335	--	--
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0016	--	--	--	0.0014	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.14	--	--	--	0.06	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0041	1	1.09907	--	0.0014	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0117	--	--	--	--	--	0.013	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0076	--	--	--	0.0002	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	CO	0.14	--	--	--	0.06	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV40	METHANE	0.0016	--	--	--	0.0017	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0041	1	1.09907	--	0.0014	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0117	--	--	--	--	--	0.013	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0076	--	--	--	0.0002	--	0.008	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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Test #	TNSX10091622	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	07/10/2025	Fuel	Gasoline
Fuel Batch ID	610557	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4385	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)	0.0003387	--
CO (Carbon Monoxide)	0.0089639	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.85	--
DT-EER (Drive Trace Energy Economy Rating)	-0.59	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.5	--
MFR FE (Manufacturer Fuel Economy)	36.2	36.2
NOX (Nitrogen Oxide)	0.0018168	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.000267	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	246.0166627	246

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	246.1873757	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PMA		
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	246	--	--	--	0.085424	--	246	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0	1	1.03	--	0.0014	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0018	--	--	--	--	--	0.003	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0018	--	--	--	0.0002	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0	1	1.03	--	0.0014	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0018	--	--	--	--	--	0.003	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0018	--	--	--	0.0002	--	0.002	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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Fuel Properties			
Fuel Batch ID	29858	Fuel Calibration Number	2
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/12/2025
Fuel Batch Calibration Effective Date	07/12/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.748
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17835
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.377	Fuel Carbon Mass Fraction (E10)	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	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	--
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	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	2
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	--

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.428	Fuel Carbon Mass Fraction (E10)	0.826
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	--
Fuel Batch ID	490337	Fuel Calibration Number	2
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)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.612	Fuel Carbon Mass Fraction (E10)	0.821
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Fuel Batch ID	610557	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/17/2025
Fuel Batch Calibration Effective Date	02/17/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18440
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	--

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PMA	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.085424	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0.0014	0.030
120,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	CO	--	--	--	--	--	--	0.06	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.09907	--	--	--	0.0014	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV40	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	1.7
150,000 miles	METHANE	--	--	--	--	--	--	0.0017	0.030
150,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	NMOG	--	1	1.09907	--	--	--	0.0014	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PMA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV40	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.085424	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0014	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0014	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PMA	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0014	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV40	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	1.7
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0014	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PMA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV40	
Fuel		Gasoline			Test Procedure			Quick-Driveway (QD)	
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	1.10049	--	--	--	0.0014	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.052
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV40	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.06	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0014	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV40	
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	--	--	--	0.0014	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0002	999.999

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group		VNSXJ02.0FVM		Evaporative/Refueling Family		VNSXR0158PMA	
Evaporative/Refueling Family		VNSXR0158PMA		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	--	0.500	0		
Evaporative/Refueling Family		VNSXR0158PMA		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		
Evaporative/Refueling Family		VNSXR0158PMA		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	--	0.500	0		
Evaporative/Refueling Family		VNSXR0158PMA		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	--	0.500	0		
Evaporative/Refueling Family		VNSXR0158PMA		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		

Certification Summary Information Report

Test Group		VNSXJ02.0FVM		Evaporative/Refueling Family		VNSXR0158PMA	
Evaporative/Refueling Family		VNSXR0158PMA		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		VNSXR0158PMA		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	--	0.500	0		
Evaporative/Refueling Family		VNSXR0158PMA		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		VNSXR0158PMA		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		VNSXR0158PMA		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		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PMA
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		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PMA
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	

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Test Group		VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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	

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Test Group		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PMA
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	