

Application For Certification

Part1

Individual application for 2027 Model Year

Durability Group	VNSXGPGNNAAS
Evaporative / Refueling Families	VNSXR0158PMA (Federal LDT3 / California LDT2) VNSXR0158PJA (Federal LDV / California PC)
Test Group	VNSXJ02.0FVM
Durability Group Description	Four Stroke, Otto Cycle, Gasoline Fueled, DFI / Ported FI Three Way Catalyst
Test Group Description	2.0 Liter L4 Federal LDT3 / California LDT2 Federal LDV / California PC
Exhaust Emission Standard	Federal Interim Tier 4 Bin 50 (Tier 3 Compliant) / California LEV-IV ULEV40 (QX60 FWD/AWD) Federal Interim Tier 4 Bin 50 (Tier 3 Compliant, 150K UL) / California LEV-IV ULEV40 (QX65 AWD)
Evaporative Emission Standard	Federal Tier 3 Evap / California LEV-IV Zero Evap (Option 2)
Vehicles Covered	INFINITI QX60 AWD (50 States) INFINITI QX60 FWD (50 States) INFINITI QX65 AWD (50 States)
Vehicles Run	GR-900-00 (FTP-E10 TN: TNSX91006660) GR-900-00 (HWFE-E10 TN: TNSX91006663) GR-900-00 (Cold CO-E10 TN: TNSX10091631) GR-900-00 (US06-E10 TN: TNSX91006664) GR-900-00 (SC03-E10 TN: TNSX10091617) GR-900-00 (FTP-QDA-E10 TN: TNSX10091620) GQB535-00 (Evap 3day-E10 TN: SNSX10085333) GQB535-00 (Evap 2day-E10 TN: SNSX91005963) GQB535-01 (ORVR-E10 TN: SNSX10085327) GQB535-00 (Running Loss-E10 TN: SNSX10085332)
Issue Date	January 19, 2026
Response Requested By	March 16, 2026
For Questions, Contact	Ryuichi Haya Telephone No. 248-488-4654

NISSAN MOTOR CO., LTD.

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Part1
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	(a) Road Load	X	
	(9) Information for § 1962.4. ZEV Requirements		This Model is not applied.

SEC5

5. Test Group Description

Test Group Name	Engine Disp.	Arrangement and No. of Cylinder	Vehicle Class	Emission St'd Class	Applicable Emission St'd
VNSXJ02.0FVM	2.0	Inline	/ 4 Federal LDT3 / California LDT2 Federal LDV / California PC	Federal Interim Tier 4 Bin 50 (Tier 3 Compliant) / California LEV-IV ULEV40 (QX60 FWD/AWD) Federal Interim Tier 4 Bin 50 (Tier 3 Compliant, 150K UL) / California LEV-IV ULEV40 (QX65 AWD)	Refer to SEC6

Emission Compliance Statement

Based on Nissan's good engineering judgment, all the vehicles described in this application for Certification comply with all applicable intermediate and full useful life standards.

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SEC6

6. Test Vehicle Description

Applicable Emission STD. for EPA Interim Tier 4 Bin 50 (LDV & LDT3)

<FTP/HWY>			<FTP>					
Mileage	NMOG+NOx (gpm) Low Altitude	NMOG+NOx (gpm) High Altitude	Mileage	CO (gpm)	HCHO (gpm)	PM (gpm)	CH4 (gpm)	N2O (gpm)
150K	0.050	0.070	120K	N.A.	N.A.	N.A.	0.030	0.010
			150K	1.7	0.004	0.003	N.A.	N.A.
<Cold FTP>			<SFTP>					
Mileage	CO (gpm)	NMHC FEL (gpm)	PM (gpm)	Mileage	COMP NMOG+NOx (gpm)	COMP CO (gpm)	US06 PM (gpm)	
50K	10.0 (LDV)	N.A.	N.A.	150K	0.080	4.2	0.006	
	12.5 (LDT3)							
120K	N.A.	0.3	N.A.					
<Early Drive-Away>			<Intermediate Soak Mid-temperature Start>					
Mileage	NMOG+NOx (gpm)	Mileage	NMOG+NOx (gpm)					
150K	N.A.	150K	N.A.	10-minute	N.A.			
				40-minute	N.A.			
				3 to 12 hour	N.A.			
<EVAP (Tier3)>								
Mileage	D+HS (g/test) Low Altitude	D+HS (g/test) High Altitude	R/L (gpm)	Canister Bleed (gpm)	ORVR (g/gal)	Leak Diameter (inch)		
150K	0.300 (LDV)	0.65 (LDV)	0.05	0.020	0.20	0.02		
	0.500 (LDT3)	1.15 (LDT3)						

Applicable Emission STD. for ARB LEV-IV ULEV40 (PC & LDT2)

<FTP/HWY>			<FTP>					<Cold FTP>		
Mileage	NMOG+NOx (gpm)	Mileage	CO (gpm)	HCHO (gpm)	PM (gpm)	CH4 (gpm)	N2O (gpm)	Mileage	CO (gpm)	
150K	0.040	150K	1.7	0.004	0.003	0.030	0.010	50K	10.0 (PC)	
									12.5 (LDT2)	
<50 deg F>			<US06>					<SC03>		
Mileage	NMOG+NOx (gpm)	CO (gpm)	HCHO (gpm)	Mileage	NMOG+NOx (gpm)	CO (gpm)	PM (gpm)	Mileage	NMOG+NOx (gpm)	CO (gpm)
4K	0.080	1.7	0.016	150K	0.040 (0.048*1)	9.6	0.006	150K	0.040	1.7
<Quick drive-away>			<Partial Soak>							
Mileage	NMOG+NOx (gpm)	Mileage	NMOG+NOx (gpm)							
150K	0.052 (0.062*2)	150K	0.020	10-minute	0.020					
			0.031	40-minute	0.031					
			0.040	3 to 12 hour	0.040					
<EVAP (LEV-IV (Option 2)) *3>						<I/M>				
Mileage	Highest Whole Vehicle D+HS (g/test)	R/L (gpm)	Canister Bleed (gpm)	ORVR (g/gal)	Leak Diameter (inch)	Mileage	HC (Idle/2500) (ppm)	CO (Idle/2500) (%)		
150K	0.300 (PC)	0.01	0.020	0.20	0.02	4K	100/130 (PC)	1.0/1.0 (PC)		
	0.500 (LDT2)						100/180 (6000lbs<GVWR)	1.0/1.1 (6000lbs<GVWR)		

*1 Nissan selects Interim In-Use Compliance Standard (US06 NMOG+NOx (d)(3)(A)5a in Sec1961.4)

*2 Nissan selects Interim Standard (Quick drive-away (d)(2)(C)3 in Sec1961.4)

*3 Nissan selects Fleet-Average ((b)(1)(G)1.b in Sec1976)

For other information, refer to the Vehicle Information (VI) submitted to EV-CIS for the complete vehicle description

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7. Test Results

Test Number	Mode	Sales Area	Official Test (marked by X)	Certification Level
TNSX91006660	Fed Fuel 2 Day Exh -E10	50 states	X	Refer to the Certification Summary Information Report
TNSX91006663	HWFE -E10	50 states	X	
TNSX10091631	Cold CO -E10	50 states	X	
TNSX91006664	US06 -E10	50 states	X	
TNSX10091617	SC03 -E10	50 states	X	
TNSX10091620	Quick Drive-Away -E10	50 states	X	
SNSX10085333	CA Fuel 3 Day Evap -E10	50 states	X	
SNSX91005963	CA Fuel 2 Day Evap -E10	50 states	X	
SNSX10085327	Fed Fuel Refuel (ORVR) -E10	50 states	X	
SNSX10085332	Running Loss -E10	50 states	X	

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Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	12/23/2025 05:30:32 AM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: 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	LDV, LDT3
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	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
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	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Other OBD Demonstration Vehicle Test Group(s) : VNSXJ02.0FVM. OBD compliance is under examination with CARB.		
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)		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

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	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	Federal	All Wheel Drive	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
Nissan Motor Co., Ltd.	2 - INFINITI	140 - QX60 FWD	Federal	2-Wheel Drive, Front	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		Substrate Construction								
1		Three-way catalyst		Platinum + Rhodium		Ceramic		Monolith								
2		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
Mfr After Treatment Device (ATD) Comments																
		--														
Direct Ozone Reduction (DOR) Device		Not Equipped														
Mfr Emission Control Device Comments		--														
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		Heated oxygen		Air/Fuel Sensor # 1 Description		--										
Air/Fuel Sensor # 2 Type		Air fuel		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		--														
Official Test Numbers																
Test Group		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	--						

Certification Summary Information Report

Test Group		VNSXJ02.0FVM		Evaporative/Refueling Family		VNSXR0158PMA	
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	0.0000	0.223	0.500	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2232	0.0000	0.223	0.500	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 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	0.0000	0.215	0.500	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2147	0.0000	0.215	0.500	Pass

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	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	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								
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	0.0000	0.015	0.020	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0148	0.0000	0.015	0.020	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA					
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	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

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	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.068	0.019	0.09	0.20	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	--	--	--	--	--	0.020	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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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>463.4257824</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	463.4257824	--																																																																					
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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	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	--	--	--	0.00	--	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	--	
	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	--																																																																																			
		<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																																																																														
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																																																			
	Carbon-Related Exhaust Emissions	9999.9999999	415																																																																																			
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>414.8634033</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	414.8634033	--																																																																														
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																																				
Carbon dioxide	414.8634033	--																																																																																				
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	--	--	--	0.0000	--	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	--	0.010	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	--	--	--	0.0000	--	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	0.0020	--	--	--	--	--	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	0.0020	--	--	--	--	--	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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<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>450.2518311</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	450.2518311	--																																																															
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	0.0020	--	--	--	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	0.0020	--	--	--	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	0.0000	--	--	--	0.06	--	0.060	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0000	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	0.00	--	--	--	0.06	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0000	1	1.03	--	0.0014	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0081	--	--	--	--	--	0.010	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	0.0000	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	0.0000	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	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	--
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	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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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	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	--
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	--
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	--

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PMA
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		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PMA	
Consolidated List of Standards									
Exhaust Standards									
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

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			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	--	--	--	--	--	--	0.0000	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		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

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			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	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	--	--	--	--	--	--	0.0000	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

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

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			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	--	--	--	--	--	--	0.00	0.3

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			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			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	
Evaporative/Refueling Standards							
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	0.0000		
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		
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	0.0000		
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	0.000		
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	0.0000		

Certification Summary Information Report

Test Group		VNSXJ02.0FVM		Evaporative/Refueling Family		VNSXR0158PMA	
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	0.000		
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	0.0000		
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	0.0000		
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	0.0000		
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		

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		AS-VOLT	Average System Voltage	
CO	Carbon Monoxide		CO2 BAG 1	Bag 1 Carbon Dioxide	
CO2	Carbon dioxide		CO2 BAG 2	Bag 2 Carbon Dioxide	
CREE	Carbon-Related Exhaust Emissions		CO2 BAG 3	Bag 3 Carbon Dioxide	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		CO2 BAG 4	Bag 4 Carbon Dioxide	
NOX	Nitrogen Oxide		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
PM	Particulate Matter		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
PM-COMP	SFTP Composite Particulate Matter		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM	Non-methane Hydrocarbon		DT-ASCR	Drive Trace Absolute Speed Change Rating	
OMHCE	Organic material Hydrocarbon Equivalent		DT-EER	Drive Trace Energy Economy Rating	
OMNMHCE	Organic material non-methane HC equivalent		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
NMOG	Non-methane organic gases		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
HCHO	Formaldehyde		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
H3C2HO	Acetaldehyde		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		LEAK-DIA	Effective Leak Diameter (inches)	
CO-COMP	SFTP Composite Carbon Monoxide		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
ETHANOL	C2H5OH - Ethanol		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
FE BAG 1	Bag 1 Fuel Economy		KW-HRS	Integrated DC KW-HRS	
FE BAG 2	Bag 2 Fuel Economy		CH4 BAG 1	Bag 1 Methane	
FE BAG 3	Bag 3 Fuel Economy		CH4 BAG 2	Bag 2 Methane	
FE BAG 4	Bag 4 Fuel Economy		CH4 BAG 3	Bag 3 Methane	
MFR FE	Manufacturer Fuel Economy		CH4 BAG 4	Bag 4 Methane	
HC	Hydrocarbon for Running Loss and ORVR		CO BAG 1	Bag 1 Carbon Monoxide	
METHANE	CH4 - Methane		CO BAG 2	Bag 2 Carbon Monoxide	
METHANOL	CH3OH - Methanol		CO BAG 3	Bag 3 Carbon Monoxide	
N2O	Nitrous Oxide		CO BAG 4	Bag 4 Carbon Monoxide	
SPITBACK	Spitback Hydrocarbon in grams		NMOG BAG 1	Bag 1 Non-methane organic gases	
AMP-HRS	Integrated Amp-hours		NMOG BAG 2	Bag 2 Non-methane organic gases	
START-SOC	System Start State of Charge Watt-hours		NMOG BAG 3	Bag 3 Non-methane organic gases	
END-SOC	System End State of Charge Watt-hours		NMOG BAG 4	Bag 4 Non-methane organic gases	
ACT-DISTANCE	Actual Distance Driven (miles)				
Certification Region					

Certification Summary Information Report

Test Group		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PMA
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2		T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3		T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4		T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6		T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7		T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8		T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9		T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10		T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395		L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340		L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630		L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570		L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160		L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125		L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70		L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50		L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30		L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20		L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395		L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340		L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250		L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200		L4ULEV125	California LEV-IV ULEV125	

Certification Summary Information Report

Test Group		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PMA
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
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		
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		

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	12/23/2025 05:30:32 AM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: 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	LDV, LDT3
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	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
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	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Other OBD Demonstration Vehicle Test Group(s) : VNSXJ02.0FVM. OBD compliance is under examination with CARB.		
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)		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	11/27/2025 12:28:10 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				
VNSXR0158PJA-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	170 - QX65 AWD	Federal	All Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	2 - INFINITI	170 - QX65 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		VNSXR0158PJA										
After Treatment Device(s) (ATD)																
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction								
1		Three-way catalyst		Platinum + Rhodium		Ceramic		Monolith								
2		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
Mfr After Treatment Device (ATD) Comments																
		--														
Direct Ozone Reduction (DOR) Device		Not Equipped														
Mfr Emission Control Device Comments		--														
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		Heated oxygen		Air/Fuel Sensor # 1 Description		--										
Air/Fuel Sensor # 2 Type		Air fuel		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 if 'Other'		--										
Air Injection Type		--														
Mfr Engine Configuration Comments		--														
Official Test Numbers																
Test Group		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	--						

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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	VNSXR0158PJA					
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	VNSXR0158PJA
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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	0.0000	0.223	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2232	0.0000	0.223	0.300	Pass

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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	0.0000	0.215	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2147	0.0000	0.215	0.300	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA						
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									
<table border="1"> <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>0.0000449</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)	0.0000449	--
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	0.000	0.000	0.00	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.01	Pass	

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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	0.0000	0.015	0.020	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0148	0.0000	0.015	0.020	Pass

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Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA																											
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)																												
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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>0.20</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>0.20</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	0.20	Pass	CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.068	0.019	0.09	0.20	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	0.20	Pass																						
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.068	0.019	0.09	0.20	Pass																						

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA					
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"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </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	Creeper Gear	No					

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family		VNSXR0158PJA	
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	VNSXR0158PJA
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				VNSXR0158PJA		
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	--	--	--	--	--	0.020	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	VNSXR0158PJA
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	VNSXR0158PJA																																																																										
	<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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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>463.4257824</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	463.4257824	--																																																																					
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Manufacturer Test Comments	--																																																																												

Certification Summary Information Report

Test Group		VNSXJ02.0FVM				Evaporative/Refueling Family				VNSXR0158PJA		
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	--	--	--	0.00	--	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	VNSXR0158PJA
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	VNSXR0158PJA																																																																																			
	<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	--	
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																																			
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	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	--																																																																																			
		<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																																																																														
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																																																			
	Carbon-Related Exhaust Emissions	9999.9999999	415																																																																																			
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>414.8634033</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	414.8634033	--																																																																														
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																																				
Carbon dioxide	414.8634033	--																																																																																				
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					VNSXR0158PJA		
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	--	--	--	0.0000	--	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	--	0.010	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	--	--	--	0.0000	--	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	VNSXR0158PJA
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				VNSXR0158PJA		
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	0.0020	--	--	--	--	--	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	0.0020	--	--	--	--	--	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	VNSXR0158PJA
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	VNSXR0158PJA																																																																				
	<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	--	
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																				
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	CO (Carbon Monoxide)	0.8753003	--																																																																				
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.0402136	--																																																																				
	DT-EER (Drive Trace Energy Economy Rating)	0.2041172	--																																																																				
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	HC-TOTAL (Total Hydrocarbon)	0.0019835	--																																																																				
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>450.2518311</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	450.2518311	--																																																															
	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				VNSXR0158PJA		
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	0.0020	--	--	--	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	0.0020	--	--	--	0.0002	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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				VNSXR0158PJA		
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	0.0000	--	--	--	0.06	--	0.060	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0000	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	0.00	--	--	--	0.06	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0000	1	1.03	--	0.0014	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0081	--	--	--	--	--	0.010	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0081	--	--	--	0.0002	--	0.008	999.999	Pass

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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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	Creeper 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	VNSXR0158PJA
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	Standard mode.		

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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				VNSXR0158PJA		
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	VNSXR0158PJA
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				VNSXR0158PJA		
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	0.0000	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	0.0000	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	VNSXR0158PJA
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	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	--
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	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	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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	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	--
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	--
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	--

Certification Summary Information Report

Test Group	VNSXJ02.0FVM	Evaporative/Refueling Family	VNSXR0158PJA
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		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PJA	
Consolidated List of Standards									
Exhaust Standards									
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

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PJA	
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	--	--	--	--	--	--	0.0000	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		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

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PJA	
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		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	--	--	--	--	--	--	0.0000	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
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

Certification Summary Information Report

Test Group		VNSXJ02.0FVM			Evaporative/Refueling Family			VNSXR0158PJA	
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	--	--	--	--	--	--	0.00	0.3
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			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			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		VNSXR0158PJA	
Evaporative/Refueling Standards							
Evaporative/Refueling Family		VNSXR0158PJA		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	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0158PJA		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	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0158PJA		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		VNSXR0158PJA		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	0.0000		
Evaporative/Refueling Family		VNSXR0158PJA		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		VNSXR0158PJA	
Evaporative/Refueling Family		VNSXR0158PJA		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	0.000		
Evaporative/Refueling Family		VNSXR0158PJA		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	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0158PJA		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	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0158PJA		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	0.0000		
Evaporative/Refueling Family		VNSXR0158PJA		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	0.000		

Certification Summary Information Report

Test Group		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PJA
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		AS-VOLT	Average System Voltage	
CO	Carbon Monoxide		CO2 BAG 1	Bag 1 Carbon Dioxide	
CO2	Carbon dioxide		CO2 BAG 2	Bag 2 Carbon Dioxide	
CREE	Carbon-Related Exhaust Emissions		CO2 BAG 3	Bag 3 Carbon Dioxide	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		CO2 BAG 4	Bag 4 Carbon Dioxide	
NOX	Nitrogen Oxide		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
PM	Particulate Matter		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
PM-COMP	SFTP Composite Particulate Matter		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM	Non-methane Hydrocarbon		DT-ASCR	Drive Trace Absolute Speed Change Rating	
OMHCE	Organic material Hydrocarbon Equivalent		DT-EER	Drive Trace Energy Economy Rating	
OMNMHCE	Organic material non-methane HC equivalent		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
NMOG	Non-methane organic gases		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
HCHO	Formaldehyde		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
H3C2HO	Acetaldehyde		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		LEAK-DIA	Effective Leak Diameter (inches)	
CO-COMP	SFTP Composite Carbon Monoxide		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
ETHANOL	C2H5OH - Ethanol		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
FE BAG 1	Bag 1 Fuel Economy		KW-HRS	Integrated DC KW-HRS	
FE BAG 2	Bag 2 Fuel Economy		CH4 BAG 1	Bag 1 Methane	
FE BAG 3	Bag 3 Fuel Economy		CH4 BAG 2	Bag 2 Methane	
FE BAG 4	Bag 4 Fuel Economy		CH4 BAG 3	Bag 3 Methane	
MFR FE	Manufacturer Fuel Economy		CH4 BAG 4	Bag 4 Methane	
HC	Hydrocarbon for Running Loss and ORVR		CO BAG 1	Bag 1 Carbon Monoxide	
METHANE	CH4 - Methane		CO BAG 2	Bag 2 Carbon Monoxide	
METHANOL	CH3OH - Methanol		CO BAG 3	Bag 3 Carbon Monoxide	
N2O	Nitrous Oxide		CO BAG 4	Bag 4 Carbon Monoxide	
SPITBACK	Spitback Hydrocarbon in grams		NMOG BAG 1	Bag 1 Non-methane organic gases	
AMP-HRS	Integrated Amp-hours		NMOG BAG 2	Bag 2 Non-methane organic gases	
START-SOC	System Start State of Charge Watt-hours		NMOG BAG 3	Bag 3 Non-methane organic gases	
END-SOC	System End State of Charge Watt-hours		NMOG BAG 4	Bag 4 Non-methane organic gases	
ACT-DISTANCE	Actual Distance Driven (miles)				
Certification Region					

Certification Summary Information Report

Test Group		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PJA
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2		T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3		T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4		T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6		T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7		T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8		T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9		T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10		T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395		L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340		L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630		L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570		L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160		L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125		L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70		L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50		L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30		L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20		L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395		L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340		L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250		L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200		L4ULEV125	California LEV-IV ULEV125	

Certification Summary Information Report

Test Group		VNSXJ02.0FVM	Evaporative/Refueling Family		VNSXR0158PJA
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
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		
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		

9. OBD System Description

Refer to the confidential section.

10. Description of Alternate-fueled Vehicles

N.A.

11. AECD Description

Refer to the confidential section.

SEC12(2)-(c)

12. Description of Vehicles Covered by Certificate and Test Parameter

(2) Shifting

(c) Manual transmission

N.A.

VNSXJ02.0FVM

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SEC12(3)

12. Description of Vehicles Covered by Certificate and Test Parameters

(3) List of Certified Vehicles

Durability Group VNSXGPGNNAAS
Test Group VNSXJ02.0FVM

Evap. Family	Fuel	Carline	Trim Line	Trans./OD	GVWR (lbs)	ETW (lbs)	Engine Code	Emission Control System						Engine Displ. (L)	Valves cyl.		SIL	Fuel Tank Vol. (gal)		Other	Vehicle Category	Sales Area	
								Cat	EGR	Air	Fuel sys	Aspiration	Other		Intake	Exhaust		Other	Other			50S	CAN
VNSXR0158PJA	Gasoline	QX65 AWD	AUTOGRAPH	S9 / 4	6063	5000	AK20CAAG	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDV / California PC	X	X	
			LUXE	S9 / 4	6063	5000	AK20CAAG	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDV / California PC	X	X	
			SPORT	S9 / 4	6063	5000	AK20CAAG	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDV / California PC	X	X	
VNSXR0158PMA		QX60 AWD	AUTOGRAPH	S9 / 4	6063	5000	AK20CAA6	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDT3 / California LDT2	X	X	
			LUXE	S9 / 4	6063	5000	AK20CAA6	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDT3 / California LDT2	X	X	
			PURE	S9 / 4	6063	5000	AK20CAA6	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDT3 / California LDT2	X	X	
			SPORT	S9 / 4	6063	5000	AK20CAA6	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDT3 / California LDT2	X	X	
		QX60 FWD	LUXE	S9 / 4	6063	4750	AK20CAA5	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDT3 / California LDT2	X		
			PURE	S9 / 4	6063	4750	AK20CAA5	TWC	N.A.	N.A.	SFI,DFI	TC	N.A.	2.0	2	2	N.A.	18.5	*1	Federal LDT3 / California LDT2	X		

*1 Refer to Type A of SEC16(11).

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12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAS
Test Group VNSXJ02.0FVM

Carline	Trim Line	Trans.	ETW (lbs)	Tire		Axle Ratio	N/V Ratio	TRLHP	Coastdown Time (sec.)	Single Roll Dyno Terms			Shift Schedule ID		Test Proc	Cooling Fan Config	Special Test Proc	Sales Area	
				Size	Type					A	B	C	City	Hwy				50S	CAN
QX60 AWD	AUTOGRAPH	S9	5000	255/50R20	All season	4.334	23.9	16.0	19.39	40.60	0.0788	0.03008	FTA	HWA	Part1066	*1	*2*3*4*5	X	X
	LUXE	S9	5000	255/50R20	All season	4.334	23.9	15.8	19.64	40.60	0.0788	0.02947	FTA	HWA	Part1066	*1	*2*3*4*5	X	X
	PURE	S9	5000	255/50R20	All season	4.334	23.9	15.9	19.51	40.60	0.0788	0.02977	FTA	HWA	Part1066	*1	*2*3*4*5	X	X
	PURE	S9	5000	255/60R18	All season	4.334	24.0	15.6	19.78	41.50	0.1479	0.02737	FTA	HWA	Part1066	*1	*2*3*4*5	X	X
	SPORT	S9	5000	255/50R20	All season	4.334	23.9	15.9	19.51	40.60	0.0788	0.02977	FTA	HWA	Part1066	*1	*2*3*4*5	X	X
QX60 FWD	LUXE	S9	4750	255/50R20	All season	4.334	23.9	14.9	19.76	37.87	-0.0467	0.03043	FTA	HWA	Part1066	*1	*3*4*5	X	
	PURE	S9	4750	255/50R20	All season	4.334	23.9	14.9	19.76	37.87	-0.0467	0.03043	FTA	HWA	Part1066	*1	*3*4*5	X	
	PURE	S9	4750	255/60R18	All season	4.334	24.0	14.9	19.70	37.39	0.1399	0.02701	FTA	HWA	Part1066	*1	*3*4*5	X	
QX65 AWD	AUTOGRAPH	S9	5000	265/45R21	All season	4.334	23.8	16.1	19.18	31.27	0.2714	0.03051	FTA	HWA	Part1066	*1	*2*3*4*5	X	X
	LUXE	S9	5000	255/50R20	All season	4.334	24.0	15.6	19.86	28.96	0.1546	0.03213	FTA	HWA	Part1066	*1	*2*3*4*5	X	X
	SPORT	S9	5000	255/50R20	All season	4.334	24.0	15.6	19.86	28.96	0.1546	0.03213	FTA	HWA	Part1066	*1	*2*3*4*5	X	X

*1 The road speed fan to all test cycles.

*2 Remove the rear propeller shaft. Then test as the front wheel drive vehicle.

*3 Set in maintenance mode. Refer to Type A of SEC16(10)-1.

*4 If engine is started, turn off the VDC system within 10 seconds always.

*5 Cancel the P position by mechanical tool.

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Issue date: Refer to cover page

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SEC12(4)-2

12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAS

Test Group VNSXJ02.0FVM

Fuel Temperature Profile at the Running Loss Testing (for EPA)

Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)
0.0	95.0	13.0	97.9	26.0	102.0	39.0	106.4	52.0	110.4	65.0	112.5
0.5	95.1	13.5	98.1	26.5	102.3	39.5	106.6	52.5	110.4	65.5	112.6
1.0	95.2	14.0	98.2	27.0	102.4	40.0	106.8	53.0	110.5	66.0	112.6
1.5	95.3	14.5	98.4	27.5	102.6	40.5	107.0	53.5	110.5	66.5	112.6
2.0	95.4	15.0	98.6	28.0	102.7	41.0	107.2	54.0	110.6	67.0	112.7
2.5	95.5	15.5	98.7	28.5	102.8	41.5	107.2	54.5	110.7	67.5	112.9
3.0	95.5	16.0	98.9	29.0	103.1	42.0	107.5	55.0	110.7	68.0	112.9
3.5	95.7	16.5	99.1	29.5	103.1	42.5	107.5	55.5	110.7	68.5	113.0
4.0	95.7	17.0	99.1	30.0	103.5	43.0	107.7	56.0	110.8	69.0	113.2
4.5	95.9	17.5	99.3	30.5	103.5	43.5	107.9	56.5	110.8	69.5	113.3
5.0	95.9	18.0	99.4	31.0	103.8	44.0	108.0	57.0	110.9	70.0	113.3
5.5	96.0	18.5	99.6	31.5	103.8	44.5	108.2	57.5	111.0	70.5	113.5
6.0	96.2	19.0	99.8	32.0	104.0	45.0	108.3	58.0	111.1	71.0	113.5
6.5	96.3	19.5	100.0	32.5	104.4	45.5	108.6	58.5	111.2	71.5	113.7
7.0	96.4	20.0	100.1	33.0	104.5	46.0	108.7	59.0	111.3	72.0	113.7
7.5	96.4	20.5	100.2	33.5	104.6	46.5	109.0	59.5	111.4		
8.0	96.5	21.0	100.4	34.0	104.7	47.0	109.2	60.0	111.6		
8.5	96.7	21.5	100.5	34.5	105.0	47.5	109.2	60.5	111.6		
9.0	96.8	22.0	100.8	35.0	105.1	48.0	109.3	61.0	111.7		
9.5	96.8	22.5	100.8	35.5	105.4	48.5	109.5	61.5	111.7		
10.0	97.0	23.0	101.0	36.0	105.5	49.0	109.6	62.0	111.9		
10.5	97.2	23.5	101.1	36.5	105.6	49.5	109.8	62.5	112.0		
11.0	97.3	24.0	101.4	37.0	105.8	50.0	109.9	63.0	112.1		
11.5	97.5	24.5	101.6	37.5	106.0	50.5	110.0	63.5	112.1		
12.0	97.7	25.0	101.8	38.0	106.1	51.0	110.1	64.0	112.4		
12.5	97.7	25.5	101.9	38.5	106.3	51.5	110.3	64.5	112.4		

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SEC12(4)-3

12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAS
Test Group VNSXJ02.0FVM

Fuel Temperature Profile at the Running Loss Testing (for ARB)

Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)	Time (min.)	Temperature (degree F)
0.0	105.1	13.0	108.0	26.0	112.1	39.0	116.5	52.0	120.5	65.0	122.5
0.5	105.2	13.5	108.1	26.5	112.4	39.5	116.7	52.5	120.5	65.5	122.6
1.0	105.3	14.0	108.3	27.0	112.5	40.0	116.9	53.0	120.6	66.0	122.6
1.5	105.4	14.5	108.5	27.5	112.6	40.5	117.1	53.5	120.6	66.5	122.7
2.0	105.4	15.0	108.7	28.0	112.8	41.0	117.2	54.0	120.7	67.0	122.8
2.5	105.5	15.5	108.8	28.5	112.9	41.5	117.3	54.5	120.7	67.5	123.0
3.0	105.5	16.0	109.0	29.0	113.2	42.0	117.6	55.0	120.7	68.0	123.0
3.5	105.8	16.5	109.1	29.5	113.2	42.5	117.6	55.5	120.7	68.5	123.1
4.0	105.8	17.0	109.2	30.0	113.5	43.0	117.8	56.0	120.9	69.0	123.3
4.5	106.0	17.5	109.4	30.5	113.5	43.5	118.0	56.5	120.9	69.5	123.4
5.0	106.0	18.0	109.5	31.0	113.9	44.0	118.0	57.0	121.0	70.0	123.4
5.5	106.1	18.5	109.7	31.5	113.9	44.5	118.3	57.5	121.1	70.5	123.5
6.0	106.3	19.0	109.9	32.0	114.1	45.0	118.4	58.0	121.2	71.0	123.6
6.5	106.3	19.5	110.1	32.5	114.4	45.5	118.7	58.5	121.3	71.5	123.8
7.0	106.4	20.0	110.2	33.0	114.5	46.0	118.8	59.0	121.4	72.0	123.8
7.5	106.5	20.5	110.3	33.5	114.7	46.5	119.0	59.5	121.5		
8.0	106.6	21.0	110.5	34.0	114.8	47.0	119.3	60.0	121.6		
8.5	106.8	21.5	110.6	34.5	115.1	47.5	119.3	60.5	121.6		
9.0	106.9	22.0	110.8	35.0	115.2	48.0	119.4	61.0	121.8		
9.5	106.9	22.5	110.8	35.5	115.5	48.5	119.6	61.5	121.8		
10.0	107.1	23.0	111.1	36.0	115.6	49.0	119.7	62.0	122.0		
10.5	107.2	23.5	111.2	36.5	115.7	49.5	119.8	62.5	122.1		
11.0	107.4	24.0	111.5	37.0	115.9	50.0	119.9	63.0	122.2		
11.5	107.6	24.5	111.7	37.5	116.1	50.5	120.1	63.5	122.2		
12.0	107.8	25.0	111.9	38.0	116.2	51.0	120.2	64.0	122.5		
12.5	107.8	25.5	112.0	38.5	116.3	51.5	120.4	64.5	122.5		

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14. Request for Certification

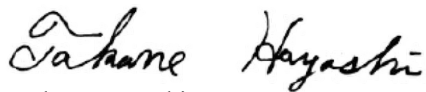
Request for Certificate to ARB

Test Group	VNSXJ02.0FVM
Exhaust emission control system number	1 of 1
Evaporative/Refueling Families	VNSXR0158PMA (Federal LDT3 / California LDT2) VNSXR0158PJA (Federal LDV / California PC)
Carline	QX60 FWD QX60 AWD QX65 AWD

Nissan Motor Co., Ltd. requests that ARB issue a 2027 model year executive order for the above specified test group and evaporative/refueling family combination more fully described in this application. This combination complies with the following applicable emission standard.

Federal	X
California & 177 States	X

This combination complies with all applicable regulations contained within 40 CFR Part86, the application is current as of this date.
The exhaust and evaporative/refueling emission test results support this request for certificate.



Takane Hayashi
Senior Manager
Regulation and Homologation Department

VNSXJ02.0FVM

Issue date: Refer to cover page

Revision date:

14. Request for Certification

Request for Certificate to EPA

Test Group	VNSXJ02.0FVM
Exhaust emission control system number	1 of 1
Evaporative/Refueling Families	VNSXR0158PMA (Federal LDT3 / California LDT2) VNSXR0158PJA (Federal LDV / California PC)
Carline	QX60 FWD QX60 AWD QX65 AWD

Nissan Motor Co., Ltd. requests that EPA issue a 2027 model year certificate of conformity for the above specified test group and evaporative/refueling family combination more fully described in this application. This combination complies with the following applicable emission standard.

Federal	X
California & 177 States	X

This combination complies with all applicable regulations contained within 40 CFR Part86, the application is current as of this date.
The exhaust and evaporative/refueling emission test results support this request for certificate.



Takane Hayashi
Senior Manager
Regulation and Homologation Department

VNSXJ02.0FVM

Issue date: Refer to cover page

Revision date:

SEC15(1)

15. Other Information

(1) Fee Filing Form

Refer to the attached Fee Filing Form.

VNSXJ02.0FVM

Issue date: Refer to cover page

Revision date:

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 11/18/2025

Process Code *

Submit Correction/Revision to Previous Fee Filing Form

Manufacturer Code *

NSX

Manufacturer Name *

NISSAN MOTOR CO., LTD.

Contact Name *

Farrukh Khan

Contact Email Address *

KhanF@nrd.nissan-usa.com

Contact Phone *

248-488-4649

Engine Family / Evaporative Family / Test Group *

TNSXV02.5RPC

Revised Engine Family / Evaporative Family /
Test Group *

VNSXJ02.0FVM

Original Payment Information

Payment Date *

08/25/2025



Amount Paid *

\$32,939.00

Check#/Wire/ACH/Pay.gov Tracking Number *

27QMTKFR

Reason for Correction

Reason For Correction *

- ☒ Typographical error in original Engine Family / Evaporative Family / Test Group
- ☐ Overpayment for original family name, please apply the overpayment to the revised Engine Family / Evaporative Family / Test Group
- ☐ Other (explain in comments box)

Comments

We would like to replace from TNSXV02.5RPC to VNSXJ02.0FVM.

EPA Form Number 3520-29

OMB Control No.2060-0545

Approval expires 7/31/2027

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the

OMB control number in any correspondence. Do not send the completed forms to this address.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 11/19/2025

Process Code *

Request Fee Refund

Manufacturer Code *

NSX

Manufacturer Name *

NISSAN MOTOR CO., LTD.

Contact Name *

Farrukh Khan

Contact Email Address *

KhanF@nrd.nissan-usa.com

Contact Phone *

248-488-4649

Engine Family / Evaporative Family / Test Group *

VNSXJ02.0FVM

Original Payment Information

Payment Date *

08/25/2025



Amount Paid *

\$32,939.00

Check#/Wire/ACH/Pay.gov Tracking Number *

27QMTKFR

Reason for Refund

Reason For Refund *

- ☐ This family failed to receive an EPA certificate (no certificate issued)
- ☐ Manufacturer withdraws request for certification and no certificate will be issued
- ☒ Overpayment
- ☐ No production
- ☐ Other (Explain in comments box below)

Amount of Refund Requested *

\$622.00

Refund Method *

Transfer

Engine Family/Test Group to Apply the Refund to *

VNSXT03.5EWU

Comments

We would like to use overpaid 1,244\$(622\$ of VNSXJ02.0FVM and 622\$ of VNSXT02.0EVW) for VNSXT03.5EWU.

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

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