

Application For Certification

Part1

Individual application for 2027 Model Year

Durability Group	VNSXGPGNNAAM
Evaporative / Refueling Family	VNSXR0155PMB
Test Group	VNSXT03.8FRM
Durability Group Description	Four Stroke, Otto Cycle, Gasoline Fueled, DFI Three Way Catalyst
Test Group Description	3.8 Liter V6 Federal LDT3 / California LDT2
Exhaust Emission Standard	Federal Interim Tier 4 Bin 50 (Tier 3 Compliant) / California LEV-IV ULEV40
Evaporative Emission Standard	Federal Tier 3 Evap / California LEV-IV Zero Evap (Option 2)
Vehicles Covered	NISSAN FRONTIER 2WD (50 States) NISSAN FRONTIER 4WD (50 States) NISSAN FRONTIER 4WD PRO-4X (50 States)
Vehicles Run	TFD480-00 (FTP-E10 TN: VNSX10093918) TFD480-00 (HWFE-E10 TN: VNSX10093886) TFD480-00 (Cold CO-E10 TN: VNSX10093899) TFD480-00 (US06-E10 TN: VNSX10093920) TFD480-00 (SC03-E10 TN: VNSX10093887) TFD480-00 (50F-E10 TN: VNSX10093889) TFD480-00 (FTP-QDA -E10 TN: VNSX10093919) SRB854-00 (Evap 3day-E10 TN: LNSX10062777) SRB854-00 (Evap 2day-E10 TN: LNSX91004619) SRB854-01 (ORVR-E10 TN: LNSX10062767) SRB854-00 (Running Loss-E10 TN: LNSX10062776)
Issue Date	May 26, 2026
Response Requested By	July 21, 2026
For Questions, Contact	Takuma Okamoto Telephone No. 248-488-4654

NISSAN MOTOR CO., LTD.

Part1
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	(a) Battery Information (related to Sec 12(3) in Part 1)		This Model is not applied.
	(b) Summary Information (related to Sec 7 in Part 1)		This Model is not applied.
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	(8) Supplemental Information		
	(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
VNSXT03.8FRM	3.8	V-shaped engine / 6	Federal LDT3 / California LDT2	Federal Interim Tier 4 Bin 50 (Tier 3 Compliant) / California LEV-IV ULEV40	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.

VNSXT03.8FRM

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SEC6

6. Test Vehicle Description

Applicable Emission STD. for EPA Interim Tier 4 Bin 50 (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	12.5	N.A.	N.A.	150K	0.080	4.2	0.006		
120K	N.A.	0.5	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	0.500	1.15	0.05	0.020	0.20	0.02			

Applicable Emission STD. for ARB LEV-IV ULEV40 (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	12.5		
<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	10-minute	0.020							
			40-minute	0.031							
			3 to 12 hour	0.040							
<EVAP (LEV-IV (Option 2)) *3>											
Mileage	Highest Whole Vehicle D+HS (g/test)	R/L (gpm)	Canister Bleed (gpm)	ORVR (g/gal)	Leak Diameter (inch)						
150K	0.500	0.01	0.020	0.20	0.02						

*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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SEC7

7. Test Results

Test Number	Mode	Sales Area	Official Test (marked by X)	Certification Level
VNSX10093918	FED Fuel 3 Day Exh	50 states	X	Refer to the Certification Summary Information Report
VNSX10093886	HWFE	50 states	X	
VNSX10093899	Cold CO	50 states	X	
VNSX10093920	US06	50 states	X	
VNSX10093887	SC03	50 states	X	
VNSX10093889	50F-E10	50 states	X	
VNSX10093919	Quick Drive-Away -E10	50 states	X	
LNSX10062777	CA Fuel 3 Day Evap	50 states	X	
LNSX91004619	Fed Fuel 2 Day Evap	50 states	X	
LNSX10062767	Fed Fuel Refuel (ORVR)	50 states	X	
LNSX10062776	Running Loss	50 states	X	

VNSXT03.8FRM

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Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/13/2026 03:54:12 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 fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT3
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	VNSXGPGNNAAM	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: 15.3 / 14.7 HWY: 19.2 / 18.4 Test No: VNSX10093918(FTP), VNSX10093886(HWY), VNSX10093920(US06), VNSX10093887(SC03), VNSX10093899(Cold)		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	05/06/2026 09:48:19 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	155	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	3				
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				
VNSXR0155PMB-001	50 State	0.02	Based on our engineering evaluation, this vehicle comply with the leak standard.				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Nissan Motor Co., Ltd.	1 - NISSAN	108 - FRONTIER 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	112 - FRONTIER 4WD PRO-4X	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	109 - FRONTIER 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	109 - FRONTIER 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	112 - FRONTIER 4WD PRO-4X	Federal	Part-time 4-Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	108 - FRONTIER 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	9	Yes

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Engine Description			
Hybrid Type	--	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Palladium + Rhodium	Ceramic
3	Three-way catalyst	Platinum + Rhodium	Ceramic
4	Three-way catalyst	Platinum + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
--			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			

Certification Summary Information Report

Test Group		VNSXT03.8FRM		Evaporative/Refueling Family		VNSXR0155PMB										
Engine Configuration Number 1																
Engine Displacement (liters)		3.8		Engine Rated Horsepower		310										
Number of Inlet Valves Per Cylinder		2		Number of Exhaust Valves Per Cylinder		2										
Air Aspiration Method		Naturally Aspirated		Number of Air Aspiration Devices		--										
Air Aspiration Device Configuration		--		Charge Air Cooler Type		N/A										
Air Aspiration Drive Method(s)		--														
Cylinder Deactivation		No														
Cylinder Deactivation Description		--														
Variable Valve Timing		Yes														
Variable Valve Timing System Description		INT;ECM and VTC controller controlled, Electric 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		4										
Air/Fuel Sensor # 1 Type		Air fuel		Air/Fuel Sensor # 1 Description		--										
Air/Fuel Sensor # 2 Type		Air fuel		Air/Fuel Sensor # 2 Description		--										
Air/Fuel Sensor # 3 Type		Heated oxygen		Air/Fuel Sensor # 3 Description		--										
Air/Fuel Sensor # 4 Type		Heated oxygen		Air/Fuel Sensor # 4 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 Fuel		FTP		US06		SC03		Cold CO		Highway		EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		VNSX10093918		VNSX10093920		VNSX10093887		VNSX10093899		VNSX10093886		15.3	14.9	19.2	18.6	--
SFTP LEV-III Official Test Numbers																
Test Group Fuel		FTP		US06		SC03										
Gasoline		VNSX10093918		VNSX10093920		VNSX10093887										

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB					
Emission Data Vehicle Information								
Vehicle ID / Configuration	SRB854 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	LNSXT03.8PRA	Original Evaporative/Refueling Family	LNSXR0155PFB					
Original Test Vehicle Model Year	2020							
Vehicle Model								
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	FRONTIER 4WD SV					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	LNSXR0155PFB-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	1	Odometer Correction Factor	1.02					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	AQ38DAA2	Rated Horsepower	310					
Displacement (liters)	3.8							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	4633	Equivalent Test Weight (pounds)	5250					
GVWR (lbs)	6012	N/V Ratio	24.1					
Axle Ratio	3.69							
Transmission Type	Semi-Automatic	# of Transmission Gears	9					
Transmission Lockup	Yes	Creep Gear	No					

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
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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	49.7	0.732	0.02137	27.32	0.4929	0.02088	18.6
Cold CO	55.22	0.8133	0.02374	29.83	0.488	0.02356	N/A
US06	49.7	0.732	0.02137	27.32	0.4929	0.02088	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments 4WD H VDC OFF

Test #	LNSX10062777	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	LNSX10062774	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	11/28/2019	Fuel	Gasoline
Fuel Batch ID	WH9-12	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	4541	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	0.289	--

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	0.2890	0.0000	0.289	0.500	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2890	0.0000	0.289	0.500	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test #	LNSX91004619	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	LNSX91004616	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/28/2020	Fuel	Gasoline
Fuel Batch ID	27723	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	5327.1	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)	0.192281	--

Manufacturer Test Comments

Hot_Soak_HC_(g) = 0.031580, Diurnal (gHC) = 0.160701

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	0.1923	0.0000	0.192	0.500	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1923	0.0000	0.192	0.500	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB						
Test #	LNSX10062776	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	LNSX10062774	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	11/28/2019	Fuel	Gasoline						
Fuel Batch ID	WH9-12	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	4524	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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</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	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--							
Manufacturer Test Comments --									
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	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB																											
Test #	LNSX10062811	Test Procedure	65 - Evap Canister Bleed Test																											
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline																											
Test Date	11/08/2019	Fuel	Gasoline																											
Fuel Batch ID	WD9-06	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 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No																											
Test Results																														
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HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0075	--																												
Manufacturer Test Comments																														
Vehicl ID, Vehicle Configuration Number and Drive Cycle Speed Tolerance Criteria are EDV information. Test Start Odometer Reading is entered for dummy.																														
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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	0.0075	0.0000	0.008	0.020	Pass																						
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0075	0.0000	0.008	0.020	Pass																						

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
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Emission Data Vehicle Information

Vehicle ID / Configuration	SRB854 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	LNSXT03.8PRA	Original Evaporative/Refueling Family	LNSXR0155PFB
Original Test Vehicle Model Year	2020		

Vehicle Model

Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	FRONTIER 4WD SV
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	LNSXR0155PFB-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	1	Odometer Correction Factor	1.02
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AQ38DAA2	Rated Horsepower	310
Displacement (liters)	3.8		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	4633	Equivalent Test Weight (pounds)	5250
GVWR (lbs)	6012	N/V Ratio	24.1
Axle Ratio	3.69		
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	49.7	0.732	0.02137	27.32	0.4929	0.02088	18.6

Emission Control Device Comments --

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Manufacturer Test Vehicle Comments	4WD H VDC OFF		
Test #	LNSX10062767	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	LNSX10062766	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/15/2019	Fuel	Gasoline
Fuel Batch ID	WL8-04	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	4251	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	0.048	--

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	0.048	0.019	0.07	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.048	0.019	0.07	0.20	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB						
Emission Data Vehicle Information									
Vehicle ID / Configuration	TFD480 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VNSXT03.8FRM	Original Evaporative/Refueling Family	VNSXR0155PMB						
Original Test Vehicle Model Year	2027								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	FRONTIER 4WD PRO-4X R						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	VNSXR0155PMB-001						
Drive Sources and Fuel System Details									
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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	30	Odometer Correction Factor	1						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AQ38DAAE	Rated Horsepower	310						
Displacement (liters)	3.8								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4899	Equivalent Test Weight (pounds)	5250						
GVWR (lbs)	6012	N/V Ratio	24.6						
Axle Ratio	3.69								
Transmission Type	Semi-Automatic	# of Transmission Gears	9						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VNSXT03.8FRM			Evaporative/Refueling Family		VNSXR0155PMB	
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	71.76	0.5229	0.026	53.26	0.3032	0.02589	21.7	
Cold CO	79.73	0.581	0.02889	54.54	0.3044	0.02854	N/A	
US06	71.76	0.5229	0.026	53.26	0.3032	0.02589	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		4WD High, D, VDC Off.						

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB																																	
Test #	VNSX10093889	Test Procedure	52 - Fed. fuel 50 F exh.																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																	
Test Date	02/18/2026	Fuel	Gasoline																																	
Fuel Batch ID	480555	Fuel Calibration Number	2																																	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	560-2 Okatsukoku																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	4164	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																																	
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Manufacturer Test Comments	--																																			

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-IV ULEV40	CO	0.27	--	--	--	0	--	0.3	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV40	NMOG	0.0173	1	1.09836	--	0	--	0.017	999.999	Pass
CA	4,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0200	--	--	--	--	--	0.020	0.080	Pass
CA	4,000 miles	California LEV-IV ULEV40	NOX	0.0027	--	--	--	0	--	0.003	999.999	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test #	VNSX10093899	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	02/04/2026	Fuel	Gasoline
Fuel Batch ID	280406	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	4119	Diesel Adjustment Factor Usage	--
4WD Test Dyno	No		
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			

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB																																																																										
	<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>633.1827952</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>3.3267926</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>13.5</td><td>13.5</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0375784</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.4087729</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>536.0770154</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0147195</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>16.1</td><td>16.1</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>0.0000888</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>469.8574906</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.1347701</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>18.3</td><td>18.3</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0013889</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.008163</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.7335377</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>3.67</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>1.09</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>5.16</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>16</td><td>16</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0769127</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0846963</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0837445</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)	633.1827952	--	CO BAG 1 (Bag 1 Carbon Monoxide)	3.3267926	--	FE BAG 1 (Bag 1 Fuel Economy)	13.5	13.5	CH4 BAG 1 (Bag 1 Methane)	0.0375784	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.4087729	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	536.0770154	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0147195	--	FE BAG 2 (Bag 2 Fuel Economy)	16.1	16.1	CH4 BAG 2 (Bag 2 Methane)	0	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0000888	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	469.8574906	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.1347701	--	FE BAG 3 (Bag 3 Fuel Economy)	18.3	18.3	CH4 BAG 3 (Bag 3 Methane)	0.0013889	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.008163	--	CO (Carbon Monoxide)	0.7335377	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.67	--	DT-EER (Drive Trace Energy Economy Rating)	1.09	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.16	--	MFR FE (Manufacturer Fuel Economy)	16	16	HC-NM (Non-methane Hydrocarbon)	0.0769127	--	NMOG (Non-methane organic gases)	0.0846963	--	HC-TOTAL (Total Hydrocarbon)	0.0837445	--	
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	Manufacturer Test Comments	--																																																																											

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	0.73	--	--	--	0.02	--	0.8	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.08	--	--	--	0.00	--	0.1	0.5	Pass
CA	50,000 miles	California LEV-IV ULEV40	CO	0.73	--	--	--	0.02	--	0.8	12.5	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test #	VNSX10093918	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/20/2026	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	4243	Diesel Adjustment Factor Usage	--
4WD Test Dyno	No		
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			

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	445.5199632	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.7203219	--	
FE BAG 1 (Bag 1 Fuel Economy)	19.5	19.5	
CH4 BAG 1 (Bag 1 Methane)	0.00603	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0410394	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	478.2552527	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.003633	--	
FE BAG 2 (Bag 2 Fuel Economy)	18.2	18.2	
CH4 BAG 2 (Bag 2 Methane)	0.0002975	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	445.7537626	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0055109	--	
FE BAG 3 (Bag 3 Fuel Economy)	19.5	19.5	
CH4 BAG 3 (Bag 3 Methane)	0.0015833	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
METHANE (CH4 - Methane)	0.0025915	--	
CO (Carbon Monoxide)	0.2387933	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.37	--	
DT-EER (Drive Trace Energy Economy Rating)	0.34	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.01	--	
HCHO (Formaldehyde)	0.0000171	--	
MFR FE (Manufacturer Fuel Economy)	19	19	
NOX (Nitrogen Oxide)	0.0041897	--	
N2O (Nitrous Oxide)	0.0014864	--	
HC-NM (Non-methane Hydrocarbon)	0.0120091	--	
NMOG (Non-methane organic gases)	0.0131903	--	
PM (Particulate Matter)	0.0010146	--	
HC-TOTAL (Total Hydrocarbon)	0.0145666	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	457.4213213	457	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	456.9770561	--	

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	457	--	--	--	0.067229	--	457	--	--
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0026	--	--	--	0.0010	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	N2O	0.0015	--	--	--	0.0000	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.24	--	--	--	0.05	--	0.3	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.43	--	--	--	0	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0132	1	1.09836	--	0.0011	--	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0174	--	--	--	--	--	0.019	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0148	--	--	--	0	--	0.015	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0042	--	--	--	0.0003	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0010	--	--	--	0.0002	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV40	CO	0.24	--	--	--	0.05	--	0.3	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV40	METHANE	0.0026	--	--	--	0.0013	--	0.004	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV40	N2O	0.0015	--	--	--	0.0000	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0132	1	1.09836	--	0.0011	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0174	--	--	--	--	--	0.019	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0042	--	--	--	0.0003	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	PM	0.0010	--	--	--	0.0002	--	0.001	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	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB																																	
Test #	VNSX10093919	Test Procedure	49 - Quick-Driveway (QD)																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																	
Test Date	03/06/2026	Fuel	Gasoline																																	
Fuel Batch ID	480555	Fuel Calibration Number	2																																	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	560-2 Okatsukoku																																			
E10 Evaporative Test Measurement Method	--	Odometer Units	M																																	
Test Start Odometer Reading	4182	Diesel Adjustment Factor Usage	--																																	
4WD Test Dyno	No																																			
State of Charge Delta	--																																			
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No																																	
Test Results																																				
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>METHANE (CH4 - Methane)</td> <td>0.0018713</td> <td>--</td> </tr> <tr> <td>CO (Carbon Monoxide)</td> <td>0.1626132</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>2.18</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>0.75</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>0.63</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>19</td> <td>19</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.0043989</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.0082071</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.0090144</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0100538</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	METHANE (CH4 - Methane)	0.0018713	--	CO (Carbon Monoxide)	0.1626132	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.18	--	DT-EER (Drive Trace Energy Economy Rating)	0.75	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.63	--	MFR FE (Manufacturer Fuel Economy)	19	19	NOX (Nitrogen Oxide)	0.0043989	--	HC-NM (Non-methane Hydrocarbon)	0.0082071	--	NMOG (Non-methane organic gases)	0.0090144	--	HC-TOTAL (Total Hydrocarbon)	0.0100538	--
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
Carbon dioxide	457.2686882	--																																		
Manufacturer Test Comments	--																																			

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	0.0090	1	1.09836	--	0.0011	--	0.010	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0134	--	--	--	--	--	0.015	0.052	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0044	--	--	--	0.0003	--	0.005	999.999	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test #	VNSX10093886	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/21/2026	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	4254	Diesel Adjustment Factor Usage	--
4WD Test Dyno	No		
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)	
METHANE (CH4 - Methane)	0.0006188	--	
CO (Carbon Monoxide)	0.0456756	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.48	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.13	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.82	--	
MFR FE (Manufacturer Fuel Economy)	26.8	26.8	
NOX (Nitrogen Oxide)	0.0026756	--	
HC-NM (Non-methane Hydrocarbon)	0.0004807	--	
NMOG (Non-methane organic gases)	0.0004951	--	
HC-TOTAL (Total Hydrocarbon)	0.0010915	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	325.0818863	325	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	325.0732076	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	325	--	--	--	0.067229	--	325	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0005	1	1.03	--	0.0011	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0032	--	--	--	--	--	0.005	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0027	--	--	--	0.0003	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0005	1	1.03	--	0.0011	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0032	--	--	--	--	--	0.005	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0027	--	--	--	0.0003	--	0.003	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	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test #	VNSX10093920	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/21/2026	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	4275	Diesel Adjustment Factor Usage	--
4WD Test Dyno	No		
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			

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB																																																																	
	<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>712.4528889</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.6927499</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>12.2</td><td>12.2</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0017326</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0041131</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>423.9632499</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.1541175</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>20.5</td><td>20.5</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0004468</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0009355</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0007319</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.2735409</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-3.12</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.32</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-6.43</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>17.8</td><td>17.8</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0184498</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0015922</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.00164</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0016739</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0023145</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)	712.4528889	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.6927499	--	FE BAG 1 (Bag 1 Fuel Economy)	12.2	12.2	CH4 BAG 1 (Bag 1 Methane)	0.0017326	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0041131	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	423.9632499	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.1541175	--	FE BAG 2 (Bag 2 Fuel Economy)	20.5	20.5	CH4 BAG 2 (Bag 2 Methane)	0.0004468	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0009355	--	METHANE (CH4 - Methane)	0.0007319	--	CO (Carbon Monoxide)	0.2735409	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.12	--	DT-EER (Drive Trace Energy Economy Rating)	-1.32	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.43	--	MFR FE (Manufacturer Fuel Economy)	17.8	17.8	NOX (Nitrogen Oxide)	0.0184498	--	HC-NM (Non-methane Hydrocarbon)	0.0015922	--	NMOG (Non-methane organic gases)	0.00164	--	PM (Particulate Matter)	0.0016739	--	HC-TOTAL (Total Hydrocarbon)	0.0023145	--	
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	Manufacturer Test Comments	--																																																																		

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	0.2735	--	--	--	0.05	--	0.324	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0016	1	1.03	--	0.0011	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0184	--	--	--	0.0003	--	0.019	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0017	--	--	--	0.0002	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV40	CO	0.27	--	--	--	0.05	--	0.3	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0016	1	1.03	--	0.0011	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0200	--	--	--	--	--	0.021	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0184	--	--	--	0.0003	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	PM	0.0017	--	--	--	0.0002	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB																																	
Test #	VNSX10093887	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																	
Test Date	01/24/2026	Fuel	Gasoline																																	
Fuel Batch ID	480555	Fuel Calibration Number	2																																	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	560-2 Okatsukoku																																			
E10 Evaporative Test Measurement Method	--	Odometer Units	M																																	
Test Start Odometer Reading	4019	Diesel Adjustment Factor Usage	--																																	
4WD Test Dyno	No																																			
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"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>METHANE (CH4 - Methane)</td> <td>0.0018433</td> <td>--</td> </tr> <tr> <td>CO (Carbon Monoxide)</td> <td>0.5951147</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>0.8</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>0.98</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>0.99</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>16.6</td> <td>16.6</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.0042607</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.0001907</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.0001964</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0020097</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	METHANE (CH4 - Methane)	0.0018433	--	CO (Carbon Monoxide)	0.5951147	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.8	--	DT-EER (Drive Trace Energy Economy Rating)	0.98	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.99	--	MFR FE (Manufacturer Fuel Economy)	16.6	16.6	NOX (Nitrogen Oxide)	0.0042607	--	HC-NM (Non-methane Hydrocarbon)	0.0001907	--	NMOG (Non-methane organic gases)	0.0001964	--	HC-TOTAL (Total Hydrocarbon)	0.0020097	--
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Manufacturer Test Comments	--																																			

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	0.5951	--	--	--	0.05	--	0.645	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0002	1	1.03	--	0.0011	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0043	--	--	--	0.0003	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	CO	0.60	--	--	--	0.05	--	0.6	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0002	1	1.03	--	0.0011	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0045	--	--	--	--	--	0.006	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0043	--	--	--	0.0003	--	0.005	999.999	Pass

Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
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Emission Data Vehicle Information

Vehicle ID / Configuration	TFD480 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	VNSXT03.8FRM	Original Evaporative/Refueling Family	VNSXR0155PMB
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	FRONTIER 4WD PRO-4X R
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	VNSXR0155PMB-001
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Drive Sources and Fuel System Details

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	30	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AQ38DAAE	Rated Horsepower	310
Displacement (liters)	3.8		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	4899	Equivalent Test Weight (pounds)	5250
GVWR (lbs)	6012	N/V Ratio	24.6
Axle Ratio	3.69		
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	71.76	0.5229	0.026	53.26	0.3032	0.02589	21.7
US06	71.76	0.5229	0.026	53.26	0.3032	0.02589	N/A

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Certification Summary Information Report

Test Group	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test #	VNSX10093891	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/19/2026	Fuel	Gasoline
Fuel Batch ID	610586	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4204	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)
METHANE (CH4 - Methane)	0.0035609	--
CO (Carbon Monoxide)	0.2473525	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.51	--
DT-EER (Drive Trace Energy Economy Rating)	0.07	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.26	--
MFR FE (Manufacturer Fuel Economy)	20.7	20.7
NOX (Nitrogen Oxide)	0.007328	--
HC-NM (Non-methane Hydrocarbon)	0.0155131	--
NMOG (Non-methane organic gases)	0.0159816	--
HC-TOTAL (Total Hydrocarbon)	0.0190273	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	429.4530211	429

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	429.2529535	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	429	--	--	--	0.067229	--	429	--	--

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	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Test #	VNSX10093893	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/19/2026	Fuel	Gasoline
Fuel Batch ID	610586	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4215	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)
METHANE (CH4 - Methane)	0.0007374	--
CO (Carbon Monoxide)	0.0837056	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.67	--
DT-EER (Drive Trace Energy Economy Rating)	-0.56	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.92	--
MFR FE (Manufacturer Fuel Economy)	27.5	27.5
NOX (Nitrogen Oxide)	0.0029258	--
HC-NM (Non-methane Hydrocarbon)	0.0013553	--
NMOG (Non-methane organic gases)	0.001396	--
HC-TOTAL (Total Hydrocarbon)	0.002083	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	323.1323415	323

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	323.381119	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXT03.8FRM				Evaporative/Refueling Family				VNSXR0155PMB		
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	323	--	--	--	0.067229	--	323	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0014	1	1.03	--	0.0011	--	0.002	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0043	--	--	--	--	--	0.006	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0029	--	--	--	0.0003	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG	0.0014	1	1.03	--	0.0011	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV40	NMOG+NOX	0.0043	--	--	--	--	--	0.006	0.040	Pass
CA	150,000 miles	California LEV-IV ULEV40	NOX	0.0029	--	--	--	0.0003	--	0.003	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	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Fuel Properties			
Fuel Batch ID	480555	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/01/2025
Fuel Batch Calibration Effective Date	11/01/2025	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	0.745
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.414	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	WD9-06	Fuel Calibration Number	9999
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	04/10/2019
Fuel Batch Calibration Effective Date	04/10/2019	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	--
Fuel Ethanol Volume Percent (%)	9.6	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	610586	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	09/15/2025
Fuel Batch Calibration Effective Date	09/15/2025	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	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18454
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	280406	Fuel Calibration Number	2
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	12/16/2024
Fuel Batch Calibration Effective Date	12/16/2024	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	VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.728	Fuel Carbon Mass Fraction (E10)	0.825
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	27723	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/09/2019
Fuel Batch Calibration Effective Date	05/09/2019	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	0.747
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17954
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	WH9-12	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	11/19/2019
Fuel Batch Calibration Effective Date	11/19/2019	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 (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17851
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--
Fuel Batch ID	WL8-04	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/14/2019
Fuel Batch Calibration Effective Date	10/14/2019	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	0.739
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17815
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	--

Certification Summary Information Report

Test Group		VNSXT03.8FRM			Evaporative/Refueling Family		VNSXR0155PMB		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-IV ULEV40		
Fuel		Gasoline			Test Procedure		Federal fuel 3-day exhaust		
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	--	--	--	--	--	--	0.05	1.7
150,000 miles	METHANE	--	--	--	--	--	--	0.0013	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010
150,000 miles	NMOG	--	1	1.09836	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			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	1.09836	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.052
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.067229	999.999

Certification Summary Information Report

Test Group	VNSXT03.8FRM				Evaporative/Refueling Family			VNSXR0155PMB	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)				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	--	--	--	--	--	--	0.05	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)				Standard Level			Federal Tier 3 Bin 50	
Fuel	Gasoline				Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.05	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0011	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)				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	--	--	--	--	--	--	0.05	1.7
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999

Certification Summary Information Report

Test Group		VNSXT03.8FRM			Evaporative/Refueling Family			VNSXR0155PMB	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0.00	0.5

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.05	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0011	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-IV ULEV40	
Fuel		Gasoline			Test Procedure			Fed. fuel 50 F exh.	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	0	1.7
4,000 miles	NMOG	--	1	1.09836	--	--	--	0	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.080
4,000 miles	NOX	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		VNSXT03.8FRM			Evaporative/Refueling Family			VNSXR0155PMB	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.067229	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Federal fuel 3-day exhaust	
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	--	--	--	--	--	--	0.067229	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0.0010	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010
150,000 miles	CO	--	--	--	--	--	--	0.05	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.09836	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003

Certification Summary Information Report

Test Group	VNSXT03.8FRM			Evaporative/Refueling Family			VNSXR0155PMB		
Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			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	--	--	--	0.0011	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0003	999.999

Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			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	12.5

Evaporative/Refueling Standards

Evaporative/Refueling Family		VNSXR0155PMB		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		VNSXR0155PMB		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	

Certification Summary Information Report

Test Group		VNSXT03.8FRM		Evaporative/Refueling Family		VNSXR0155PMB	
Evaporative/Refueling Family		VNSXR0155PMB		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		VNSXR0155PMB		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		VNSXR0155PMB		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		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		VNSXR0155PMB		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		VNSXR0155PMB		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		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		VNSXT03.8FRM		Evaporative/Refueling Family		VNSXR0155PMB					
Evaporative/Refueling Family		VNSXR0155PMB		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		VNSXR0155PMB		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		VNSXR0155PMB		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		VNSXT03.8FRM	Evaporative/Refueling Family	VNSXR0155PMB
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VNSXT03.8FRM	Evaporative/Refueling Family		VNSXR0155PMB
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VNSXT03.8FRM	Evaporative/Refueling Family		VNSXR0155PMB
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VNSXT03.8FRM	Evaporative/Refueling Family		VNSXR0155PMB
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.

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SEC12(3)

12. Description of Vehicles Covered by Certificate and Test Parameters

(3) List of Certified Vehicles

Durability Group VNSXGPGNNAAM
Test Group VNSXT03.8FRM

															Engine				Fuel					
Evap. Family	Fuel	Carline	Body Type	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					50S	CAN	
VNSXR0155PMB	Gasoline	FRONTIER 2WD	LWB CREW	SV	S9 / 3	6012	5000	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
			SWB CREW	PRO-X	S9 / 3	6012	5000	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
				S	S9 / 3	6012	4750	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
				SV	S9 / 3	6012	5000	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
			SWB KING	S	S9 / 3	6012	4750	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
		FRONTIER 4WD PRO-4X	LWB CREW	PRO-4X LWB	S9 / 3	6012	5250	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
			SWB CREW	PRO-4X R	S9 / 3	6012	5250	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
				PRO-4X	S9 / 3	6012	5250	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
		FRONTIER 4WD	LWB CREW	SV LWB	S9 / 3	6012	5250	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X	X	
				PRO-4X LWB	S9 / 3	6012	5250	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Canada LDT3		X	
			SWB CREW	S	S9 / 3	6012	5000	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
				SV	S9 / 3	6012	5000	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X		
				PRO-4X	S9 / 3	6012	5250	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Canada LDT3		X	
			SWB KING	S	S9 / 3	6012	5000	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Federal LDT3 / California LDT2	X	X	
				PRO-4X	S9 / 3	6012	5000	AQ38DAAE	TWC	N.A.	N.A.	DFI	Natural	N.A.	3.8	2	2	N.A.	21.1	*1	Canada LDT3		X	

*1 Refer to Type B of SEC16(11)

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(4) Test Parameter

Durability Group VNSXGPGNNAAM
Test Group VNSXT03.8FRM

Carline	Body Type	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	Special Test	Sale Area	
					Size	Type					A	B	C	City	Hwy		Config	Proc	50S	CAN
FRONTIER 2WD	LWB CREW	SV	S9	5000	265/65R17	All season	3.692	25.6	15.1	20.46	30.43	0.1107	0.03103	FTA	HWA	Part1066	*1	*3*4*5*6	X	
	SWB CREW	PRO-X	S9	5000	265/70R17	All Terrain	3.692	24.6	17.5	17.67	37.09	0.7130	0.02344	FTA	HWA	Part1066	*1	*3*4*5*6	X	
		S	S9	4750	265/70R16	All season	3.692	25.2	14.9	19.76	29.23	0.0996	0.03101	FTA	HWA	Part1066	*1	*3*4*5*6	X	
		SV	S9	5000	265/65R17	All season	3.692	25.6	15.1	20.46	30.43	0.1107	0.03103	FTA	HWA	Part1066	*1	*3*4*5*6	X	
		SV	S9	5000	265/70R17	All Terrain	3.692	24.6	17.5	17.67	37.09	0.7130	0.02344	FTA	HWA	Part1066	*1	*3*4*5*6	X	
FRONTIER 4WD PRO-4X	SWB KING	S	S9	4750	265/70R16	All season	3.692	25.2	14.9	19.76	29.23	0.0996	0.03101	FTA	HWA	Part1066	*1	*3*4*5*6	X	
	LWB CREW	PRO-4X LWB	S9	5250	265/70R17	All Terrain	3.692	24.6	20.9	15.50	71.76	0.5229	0.02360	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	
	SWB CREW	PRO-4X R	S9	5250	265/70R17	All Terrain	3.692	24.6	21.7	14.94	71.76	0.5229	0.02600	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	
FRONTIER 4WD		PRO-4X	S9	5250	265/70R17	All Terrain	3.692	24.6	20.9	15.50	71.76	0.5229	0.02360	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	
	LWB CREW	PRO-4X LWB	S9	5250	265/70R17	All Terrain	3.692	24.6	20.9	15.50	71.76	0.5229	0.02360	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	X
		SV LWB	S9	5250	265/65R17	All season	3.692	25.6	19.4	16.73	44.08	0.4228	0.03219	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	X
		SV LWB	S9	5250	265/70R17	All Terrain	3.692	24.6	20.9	15.50	71.76	0.5229	0.02360	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	X
	SWB CREW	PRO-4X	S9	5250	265/70R17	All Terrain	3.692	24.6	20.9	15.50	71.76	0.5229	0.02360	FTA	HWA	Part1066	*1	*2*3*4*5*6		X
		S	S9	5000	265/70R16	All season	3.692	25.2	19.3	16.04	41.90	0.6208	0.02869	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	
		SV	S9	5000	265/65R17	All season	3.692	25.6	19.3	16.04	41.90	0.6208	0.02869	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	
		SV	S9	5000	265/70R17	All Terrain	3.692	24.6	20.7	14.93	69.36	0.5065	0.02422	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	
	SWB KING	PRO-4X	S9	5000	265/70R17	All Terrain	3.692	24.6	20.7	14.93	69.36	0.5065	0.02422	FTA	HWA	Part1066	*1	*2*3*4*5*6		X
		S	S9	5000	265/70R16	All season	3.692	25.2	19.3	16.04	41.90	0.6208	0.02869	FTA	HWA	Part1066	*1	*2*3*4*5*6	X	X

*1 One centered front fan, in up position.

*2 Remove the front propeller shaft. Then test as the rear 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 automatic P position function by Nissan development tool.

*6 Put a weight of 300lbs on the bed for the slip prevention of the tire in all test mode (especially US06 mode)

VNSXT03.8FRM

Issue date: Refer to cover page

Revision date:

SEC12(4)-2

12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAM

Test Group VNSXT03.8FRM

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	101.3	39.0	105.2	52.0	108.6	65.0	111.8
0.5	95.0	13.5	98.0	26.5	101.6	39.5	105.3	52.5	108.8	65.5	111.9
1.0	95.1	14.0	98.2	27.0	101.8	40.0	105.5	53.0	108.9	66.0	112.0
1.5	95.2	14.5	98.3	27.5	102.0	40.5	105.6	53.5	109.0	66.5	112.1
2.0	95.3	15.0	98.5	28.0	102.1	41.0	105.8	54.0	109.2	67.0	112.2
2.5	95.3	15.5	98.6	28.5	102.3	41.5	105.9	54.5	109.3	67.5	112.3
3.0	95.4	16.0	98.8	29.0	102.5	42.0	106.0	55.0	109.4	68.0	112.4
3.5	95.5	16.5	98.9	29.5	102.6	42.5	106.2	55.5	109.6	68.5	112.5
4.0	95.6	17.0	99.1	30.0	102.8	43.0	106.3	56.0	109.7	69.0	112.6
4.5	95.7	17.5	99.2	30.5	102.9	43.5	106.4	56.5	109.8	69.5	112.6
5.0	95.8	18.0	99.3	31.0	103.1	44.0	106.5	57.0	109.9	70.0	112.7
5.5	95.9	18.5	99.5	31.5	103.1	44.5	106.7	57.5	110.1	70.5	112.8
6.0	96.0	19.0	99.6	32.0	103.3	45.0	106.8	58.0	110.2	71.0	112.8
6.5	96.1	19.5	99.7	32.5	103.4	45.5	106.9	58.5	110.3	71.5	112.9
7.0	96.2	20.0	99.9	33.0	103.6	46.0	107.0	59.0	110.4	72.0	113.0
7.5	96.3	20.5	100.1	33.5	103.7	46.5	107.0	59.5	110.5		
8.0	96.5	21.0	100.2	34.0	103.8	47.0	107.1	60.0	110.6		
8.5	96.6	21.5	100.4	34.5	104.0	47.5	107.2	60.5	110.7		
9.0	96.7	22.0	100.6	35.0	104.1	48.0	107.5	61.0	110.8		
9.5	96.9	22.5	100.7	35.5	104.2	48.5	107.7	61.5	111.0		
10.0	97.0	23.0	100.8	36.0	104.3	49.0	107.8	62.0	111.1		
10.5	97.1	23.5	100.9	36.5	104.4	49.5	108.0	62.5	111.2		
11.0	97.3	24.0	101.0	37.0	104.6	50.0	108.1	63.0	111.3		
11.5	97.4	24.5	101.1	37.5	104.8	50.5	108.3	63.5	111.4		
12.0	97.5	25.0	101.1	38.0	104.9	51.0	108.4	64.0	111.5		
12.5	97.7	25.5	101.2	38.5	105.0	51.5	108.5	64.5	111.6		

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Issue date: Refer to cover page

Revision date:

SEC12(4)-3

12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAM

Test Group VNSXT03.8FRM

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	111.4	39.0	115.3	52.0	118.7	65.0	121.9
0.5	105.1	13.5	108.1	26.5	111.7	39.5	115.4	52.5	118.9	65.5	122.0
1.0	105.2	14.0	108.2	27.0	111.9	40.0	115.5	53.0	119.0	66.0	122.0
1.5	105.3	14.5	108.4	27.5	112.1	40.5	115.7	53.5	119.1	66.5	122.2
2.0	105.3	15.0	108.6	28.0	112.2	41.0	115.9	54.0	119.2	67.0	122.3
2.5	105.4	15.5	108.7	28.5	112.4	41.5	116.0	54.5	119.4	67.5	122.4
3.0	105.5	16.0	108.9	29.0	112.5	42.0	116.1	55.0	119.5	68.0	122.5
3.5	105.6	16.5	109.0	29.5	112.7	42.5	116.2	55.5	119.6	68.5	122.6
4.0	105.7	17.0	109.2	30.0	112.9	43.0	116.4	56.0	119.7	69.0	122.7
4.5	105.7	17.5	109.3	30.5	113.0	43.5	116.5	56.5	119.9	69.5	122.7
5.0	105.8	18.0	109.4	31.0	113.1	44.0	116.6	57.0	120.0	70.0	122.8
5.5	106.0	18.5	109.6	31.5	113.2	44.5	116.8	57.5	120.1	70.5	122.9
6.0	106.1	19.0	109.7	32.0	113.3	45.0	116.9	58.0	120.3	71.0	122.9
6.5	106.2	19.5	109.8	32.5	113.5	45.5	117.0	58.5	120.4	71.5	123.0
7.0	106.3	20.0	110.0	33.0	113.6	46.0	117.1	59.0	120.5	72.0	123.0
7.5	106.4	20.5	110.2	33.5	113.8	46.5	117.1	59.5	120.6		
8.0	106.5	21.0	110.3	34.0	113.9	47.0	117.2	60.0	120.7		
8.5	106.7	21.5	110.5	34.5	114.1	47.5	117.3	60.5	120.8		
9.0	106.8	22.0	110.6	35.0	114.2	48.0	117.6	61.0	120.9		
9.5	106.9	22.5	110.8	35.5	114.3	48.5	117.8	61.5	121.0		
10.0	107.1	23.0	110.9	36.0	114.3	49.0	117.9	62.0	121.1		
10.5	107.2	23.5	111.0	36.5	114.5	49.5	118.0	62.5	121.3		
11.0	107.4	24.0	111.1	37.0	114.7	50.0	118.2	63.0	121.4		
11.5	107.5	24.5	111.2	37.5	114.8	50.5	118.3	63.5	121.5		
12.0	107.6	25.0	111.2	38.0	115.0	51.0	118.5	64.0	121.6		
12.5	107.8	25.5	111.3	38.5	115.1	51.5	118.6	64.5	121.7		

VNSXT03.8FRM

Issue date: Refer to cover page

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14. Request for Certification

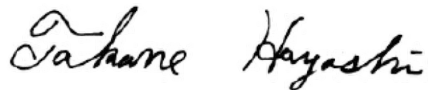
Request for Certificate to ARB

Test Group	VNSXT03.8FRM
Exhaust emission control system number	1 of 1
Evaporative/Refueling Family	VNSXR0155PMB
Carline	FRONTIER 2WD
	FRONTIER 4WD PRO-4X
	FRONTIER 4WD

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

VNSXT03.8FRM

Issue date: Refer to cover page

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14. Request for Certification

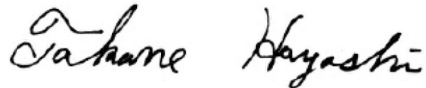
Request for Certificate to EPA

Test Group	VNSXT03.8FRM
Exhaust emission control system number	1 of 1
Evaporative/Refueling Family	VNSXR0155PMB
Carline	FRONTIER 2WD
	FRONTIER 4WD PRO-4X
	FRONTIER 4WD

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

VNSXT03.8FRM

Issue date: Refer to cover page

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SEC15(1)

15. Other Information

(1) Fee Filing Form

Refer to the attached Fee Filing Form.

VNSXT03.8FRM

Issue date: Refer to cover page

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US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 02/18/2026

Process Code *

Submit New 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

Calendar Year complete application submitted to EPA *

2026

calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

VNSXT03.8FRM

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

- ☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (Federal) (E, H)
- ☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- ☐ On-Highway Motorcycle (C)
- ☐ On-Highway HDV Evap (F)
- ☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
- ☐ Nonroad CI (L)
- ☐ Nonroad SI (B, S)
- ☐ Locomotive (G, K)
- ☐ All Nonroad Recreational, excluding Marine engines (X, Y)
- ☐ All Marine (Including IMO) (M, N, W)
- ☐ Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Amount Owed

\$32,317.00

Payment Type *

Offline Wire

Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

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