

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Certificate Number	VNSXV02.0EVR-016	CARB Executive Order #	--
Certificate Issue Date	07/13/2026	Certificate Revision Date	--
Certificate Effective Date	07/13/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	06/16/2026 09:43:37 PM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VNSXGPGNNABW	Durability Group Equivalency Factor	1.8
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	08/31/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VNSXT01.53CF
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	The OBD approval letter (E-26-008). Deficiency: SAE J1979-2 Implementation Deficiency and Lack of MIL Illumination for Some Safety-related Components. Other OBD Demonstration Vehicle Test Group(s) : VNSXJ02.0FVM.		
Mfr Test Group Comments	Nissan conducted FTP, HWY, US06, and SC03 using Tier3 E10 gasoline and Cold using Cold E10 gasoline for Litmus. Litmus result(Value / Threshold) City: 17.3 / 16.8 HWY: 22.8 / 21.4 Test No: VNSX10094297(FTP),VNSX10094298(HWY), VNSX10094299(US06), VNSX10094300(SC03), VNSX10094301(Cold)		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	11/27/2025 12:28:10 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	158	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	0				
Mfr Evaporative/Refueling Family Comments	--						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VNSXR0158PJA-001	50 State	0.02	Based on our engineering evaluation, this vehicle comply with the leak standard.				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Nissan Motor Co., Ltd.	2 - INFINITI	170 - QX65 AWD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	2 - INFINITI	170 - QX65 AWD	Federal	All Wheel Drive	Semi-Automatic	9	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20				
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	Y				

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Test Group		VNSXV02.0EVR		Evaporative/Refueling Family		VNSXR0158PJA										
After Treatment Device(s) (ATD)																
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction								
1		Three-way catalyst		Platinum + Rhodium		Ceramic		Monolith								
2		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith								
Mfr After Treatment Device (ATD) Comments																
		--														
Direct Ozone Reduction (DOR) Device		Not Equipped														
Mfr Emission Control Device Comments		--														
Engine Configuration Number 1																
Engine Displacement (liters)		2.0		Engine Rated Horsepower		268										
Number of Inlet Valves Per Cylinder		2		Number of Exhaust Valves Per Cylinder		2										
Air Aspiration Method		Turbocharged		Number of Air Aspiration Devices		1										
Air Aspiration Device Configuration		Single		Charge Air Cooler Type		Air										
Air Aspiration Drive Method(s)		Hydraulic														
Cylinder Deactivation		No														
Cylinder Deactivation Description		--														
Variable Valve Timing		Yes														
Variable Valve Timing System Description		INT:ECM controlled, Motor driven EXH:ECM controlled, Oil pressure driven														
Variable Valve Lift?		No														
Variable Valve Lift System Description		--														
Number of Knock Sensors		2		Number of Air/Fuel Sensors		2										
Air/Fuel Sensor # 1 Type		Heated oxygen		Air/Fuel Sensor # 1 Description		--										
Air/Fuel Sensor # 2 Type		Air fuel		Air/Fuel Sensor # 2 Description		--										
Mfr Air/Fuel Sensor Comments		--														
Exhaust Gas Recirculation		No		Cooled Exhaust Gas Recirculation		No										
EGR Type		--		Exhaust Gas Recirculation Description if 'Other'		--										
Closed Loop Air Injection System		No		Air Injection Type if 'Other'		--										
Air Injection Type		--														
Mfr Engine Configuration Comments		--														
Official Test Numbers																
Test Group		FTP		US06		SC03		Cold CO		Highway		EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	VNSX10094297	VNSX10094299	VNSX10094300	VNSX10094301	VNSX10094298	17.3	16.8	22.8	21.5	--						

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Test Group		VNSXV02.0EVR		Evaporative/Refueling Family		VNSXR0158PJA	
SFTP LEV-III Official Test Numbers							
Test Group Fuel		FTP		US06		SC03	
Gasoline		VNSX10094297		VNSX10094299		VNSX10094300	

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	GQB535 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SNSXT02.0AVD	Original Evaporative/Refueling Family	SNSXR0158PFA						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	INFINITI	Represented Test Vehicle Model	QX60 AWD LUXE						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SNSXR0158PFA-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	8	Odometer Correction Factor	1.01						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AK20CAA2	Rated Horsepower	268						
Displacement (liters)	2								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4712	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	6063	N/V Ratio	23.9						
Axle Ratio	4.33								
Transmission Type	Semi-Automatic	# of Transmission Gears	9						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	40.6	0.0788	0.03008	23.17	-0.2572	0.03138	16
Cold CO	45.11	0.0876	0.03342	21.85	-0.4054	0.03506	N/A
US06	40.6	0.0788	0.03008	23.17	-0.2572	0.03138	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Sport mode

Test #	SNSX10085333	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	SNSX10085331	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	03/21/2024	Fuel	Gasoline
Fuel Batch ID	470054	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4650	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2232252	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2232	0	0.223	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2232	0	0.223	0.3	Pass

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	SNSX91005963	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	SNSX91005955	Test Fuel Type	47 - CARB LEV3 E10 Premium
Test Date	06/21/2024	Fuel	Gasoline
Fuel Batch ID	26782	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	5272	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

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

Manufacturer Test Comments

Hot_Soak_HC_(g) = 0.031294, Diurnal (gHC) = 0.183410

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2147	0	0.215	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2147	0	0.215	0.3	Pass

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA						
Test #	SNSX10085332	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	SNSX10085331	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	03/21/2024	Fuel	Gasoline						
Fuel Batch ID	470054	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	560-2 Okatsukoku								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4633	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes						
Test Results									
<table border="1"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value (miles per gallon)</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0000449</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0000449	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0000449	--							
Manufacturer Test Comments --									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.01	Pass	

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	SNSX10085471	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/13/2023	Fuel	Gasoline
Fuel Batch ID	WE3A07	Fuel Calibration Number	9999
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9999	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

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

Manufacturer Test Comments

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

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.0148	0	0.015	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0148	0	0.015	0.02	Pass

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA					
Emission Data Vehicle Information								
Vehicle ID / Configuration	GQB535 / 1	Manufacturer Vehicle Configuration Number	1					
Original Test Group Name	SNSXT02.0AVD	Original Evaporative/Refueling Family	SNSXR0158PFA					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	INFINITI	Represented Test Vehicle Model	QX60 AWD LUXE					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	SNSXR0158PFA-001					
Drive Sources and Fuel System Details								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	8	Odometer Correction Factor	1.01					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	AK20CAA2	Rated Horsepower	268					
Displacement (liters)	2							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single					
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	4712	Equivalent Test Weight (pounds)	5000					
GVWR (lbs)	6063	N/V Ratio	23.9					
Axle Ratio	4.33							
Transmission Type	Semi-Automatic	# of Transmission Gears	9					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	40.6	0.0788	0.03008					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	23.17	-0.2572	0.03138					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	16							
Emission Control Device Comments	--							

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Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Manufacturer Test Vehicle Comments	Sport mode		
Test #	SNSX10085327	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	SNSX10085325	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	03/15/2024	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4488	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

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

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.068	0.019	0.09	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.068	0.019	0.09	0.2	Pass

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Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	GVC232 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	VNSXV02.0EVR	Original Evaporative/Refueling Family	VNSXR0158PJA						
Original Test Vehicle Model Year	2027								
Vehicle Model									
Represented Test Vehicle Make	INFINITI	Represented Test Vehicle Model	QX65 AWD AUTOGRAPH						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	VNSXR0158PJA-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	11	Odometer Correction Factor	0.996						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AK20CAAH	Rated Horsepower	268						
Displacement (liters)	2								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4771	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	6063	N/V Ratio	23.8						
Axle Ratio	4.33								
Transmission Type	Semi-Automatic	# of Transmission Gears	9						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VNSXV02.0EVR			Evaporative/Refueling Family		VNSXR0158PJA	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	31.27	0.2714	0.03051	17.88	-0.12	0.0327	16.1	
Cold CO	34.74	0.3016	0.0339	16.3	-0.1677	0.03601	N/A	
US06	31.27	0.2714	0.03051	17.88	-0.12	0.0327	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Sport mode.						

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Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094295	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	05/15/2026	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4506	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0043034	--
CO (Carbon Monoxide)	0.2928078	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.06	--
DT-EER (Drive Trace Energy Economy Rating)	0.15	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.73	--
MFR FE (Manufacturer Fuel Economy)	21.4	21.4
NOX (Nitrogen Oxide)	0.0079766	--
HC-NM (Non-methane Hydrocarbon)	0.0159138	--
NMOG (Non-methane organic gases)	0.017513	--
HC-TOTAL (Total Hydrocarbon)	0.0196313	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	401.6878402	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-IV ULEV50	CO	0.29	--	--	--	0	--	0.3	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV50	NMOG	0.0175	1	1.10049	--	0	--	0.018	999.999	Pass
CA	4,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0255	--	--	--	--	--	0.026	0.100	Pass
CA	4,000 miles	California LEV-IV ULEV50	NOX	0.008	--	--	--	0	--	0.008	999.999	Pass

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094297	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/24/2026	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4447	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	388.8456282	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.47051	--	
FE BAG 1 (Bag 1 Fuel Economy)	22.1	22.1	
CH4 BAG 1 (Bag 1 Methane)	0.0068237	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0221921	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	419.2259569	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	-0.0022152	--	
FE BAG 2 (Bag 2 Fuel Economy)	20.5	20.5	
CH4 BAG 2 (Bag 2 Methane)	0.0002455	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	-0.0004393	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	355.4705987	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.00429	--	
FE BAG 3 (Bag 3 Fuel Economy)	24.2	24.2	
CH4 BAG 3 (Bag 3 Methane)	0.001302	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	-0.0005432	--	
METHANE (CH4 - Methane)	0.0018998	--	
CO (Carbon Monoxide)	0.0975936	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.38	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.05	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.67	--	
HCHO (Formaldehyde)	0	--	
MFR FE (Manufacturer Fuel Economy)	21.8	21.8	
NOX (Nitrogen Oxide)	0.007914	--	
N2O (Nitrous Oxide)	0.001889	--	
HC-NM (Non-methane Hydrocarbon)	0.0038391	--	
NMOG (Non-methane organic gases)	0.0042249	--	
PM (Particulate Matter)	0.0013616	--	
HC-TOTAL (Total Hydrocarbon)	0.0057139	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	395.1742418	395	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	395.4097959	--	

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	395	--	--	--	0.064644	--	395	--	--
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0019	--	--	--	0.0021	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	N2O	0.0019	--	--	--	0.0002	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.1	--	--	--	0.04	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.25	--	--	--	0	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0042	1	1.10049	--	0	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0121	--	--	--	--	--	0.014	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0096	--	--	--	0	--	0.01	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0079	--	--	--	0.0017	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0014	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.1	--	--	--	0.04	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	METHANE	0.0019	--	--	--	0.0026	--	0.004	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV50	N2O	0.0019	--	--	--	0.0003	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0042	1	1.10049	--	0	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0121	--	--	--	--	--	0.014	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0079	--	--	--	0.0017	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0014	--	--	--	0	--	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	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094301	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	04/22/2026	Fuel	Gasoline
Fuel Batch ID	290377	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4389	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA																																																																										
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>520.4258696</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>5.3436853</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>16.4</td><td>16.4</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0791563</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.6764174</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>484.7125267</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>17.9</td><td>17.9</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>0.0006681</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>395.5663052</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0169869</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>21.9</td><td>21.9</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.000203</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0000905</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.016471</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>1.1128263</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.26</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.05</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.37</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>18.5</td><td>18.5</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.127967</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.1406447</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.1418444</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)	520.4258696	--	CO BAG 1 (Bag 1 Carbon Monoxide)	5.3436853	--	FE BAG 1 (Bag 1 Fuel Economy)	16.4	16.4	CH4 BAG 1 (Bag 1 Methane)	0.0791563	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.6764174	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	484.7125267	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	FE BAG 2 (Bag 2 Fuel Economy)	17.9	17.9	CH4 BAG 2 (Bag 2 Methane)	0	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0006681	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	395.5663052	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0169869	--	FE BAG 3 (Bag 3 Fuel Economy)	21.9	21.9	CH4 BAG 3 (Bag 3 Methane)	0.000203	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0000905	--	METHANE (CH4 - Methane)	0.016471	--	CO (Carbon Monoxide)	1.1128263	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.26	--	DT-EER (Drive Trace Energy Economy Rating)	-0.05	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.37	--	MFR FE (Manufacturer Fuel Economy)	18.5	18.5	HC-NM (Non-methane Hydrocarbon)	0.127967	--	NMOG (Non-methane organic gases)	0.1406447	--	HC-TOTAL (Total Hydrocarbon)	0.1418444	--	
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																										
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>467.6339435</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	467.6339435	--																																																																					
	Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																										
	Carbon dioxide	467.6339435	--																																																																										
	Manufacturer Test Comments	--																																																																											

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	1.11	--	--	--	0.01	--	1.1	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.13	--	--	--	0	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV50	CO	1.11	--	--	--	0.01	--	1.1	10.0	Pass

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094298	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/15/2026	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4177	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0001356	--
CO (Carbon Monoxide)	0.0083969	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.33	--
DT-EER (Drive Trace Energy Economy Rating)	-0.17	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.06	--
MFR FE (Manufacturer Fuel Economy)	31.4	31.4
NOX (Nitrogen Oxide)	0.0018077	--
HC-NM (Non-methane Hydrocarbon)	0.0005431	--
NMOG (Non-methane organic gases)	0.0005594	--
HC-TOTAL (Total Hydrocarbon)	0.0006703	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	274.0178151	274

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	273.9421472	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	274	--	--	--	0.064644	--	274	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0006	1	1.03	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0024	--	--	--	--	--	0.004	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0018	--	--	--	0.0017	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0006	1	1.03	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0024	--	--	--	--	--	0.004	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0018	--	--	--	0.0017	--	0.004	999.999	Pass

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

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094299	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/15/2026	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4235	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	606.5875017	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.0926771	--
FE BAG 1 (Bag 1 Fuel Economy)	14.2	14.2
CH4 BAG 1 (Bag 1 Methane)	-0.0001582	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.001067	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	347.5414168	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0624061	--
FE BAG 2 (Bag 2 Fuel Economy)	24.7	24.7
CH4 BAG 2 (Bag 2 Methane)	-0.0000089	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0005543	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0.0691199	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.15	--
DT-EER (Drive Trace Energy Economy Rating)	-0.05	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.13	--
MFR FE (Manufacturer Fuel Economy)	21.2	21.2
NOX (Nitrogen Oxide)	0.0033408	--
HC-NM (Non-methane Hydrocarbon)	0.0006485	--
NMOG (Non-methane organic gases)	0.000668	--
PM (Particulate Matter)	0.001117	--
HC-TOTAL (Total Hydrocarbon)	0.0006091	--

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
				Test Result Name		Unrounded Test Result			Verify Calculated CO2			
				Carbon dioxide		404.9951606			--			
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	150,000 miles	Federal Tier 3 Bin 50	CO	0.0691	--	--	--	0.04	--	0.109	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0007	1	1.03	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0033	--	--	--	0.0017	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0011	--	--	--	0	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.07	--	--	--	0.04	--	0.1	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0007	1	1.03	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.004	--	--	--	--	--	0.006	0.060	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0033	--	--	--	0.0017	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0011	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094300	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/15/2026	Fuel	Gasoline
Fuel Batch ID	490337	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4258	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0009497	--
CO (Carbon Monoxide)	0.4193211	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.66	--
DT-EER (Drive Trace Energy Economy Rating)	-0.34	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.52	--
MFR FE (Manufacturer Fuel Economy)	17.7	17.7
NOX (Nitrogen Oxide)	0.0066873	--
HC-NM (Non-methane Hydrocarbon)	0.0001427	--
NMOG (Non-methane organic gases)	0.000147	--
HC-TOTAL (Total Hydrocarbon)	0.0010335	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	483.8058887	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.4193	--	--	--	0.04	--	0.459	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0001	1	1.03	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0067	--	--	--	0.0017	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.42	--	--	--	0.04	--	0.5	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0001	1	1.03	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0068	--	--	--	--	--	0.008	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0067	--	--	--	0.0017	--	0.008	999.999	Pass

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA					
Emission Data Vehicle Information								
Vehicle ID / Configuration	GVC232 / 1	Manufacturer Vehicle Configuration Number	1					
Original Test Group Name	VNSXV02.0EVR	Original Evaporative/Refueling Family	VNSXR0158PJA					
Original Test Vehicle Model Year	2027							
Vehicle Model								
Represented Test Vehicle Make	INFINITI	Represented Test Vehicle Model	QX65 AWD AUTOGRAPH					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	VNSXR0158PJA-001					
Drive Sources and Fuel System Details								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	11	Odometer Correction Factor	0.996					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	AK20CAAH	Rated Horsepower	268					
Displacement (liters)	2							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single					
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	4771	Equivalent Test Weight (pounds)	5000					
GVWR (lbs)	6063	N/V Ratio	23.8					
Axle Ratio	4.33							
Transmission Type	Semi-Automatic	# of Transmission Gears	9					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	31.27	0.2714	0.03051					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	17.88	-0.12	0.0327					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	16.1							
Emission Control Device Comments	--							

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Manufacturer Test Vehicle Comments	STANDARD mode.		

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094296	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	05/20/2026	Fuel	Gasoline
Fuel Batch ID	610586	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4545	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.003607	--
CO (Carbon Monoxide)	0.2568279	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.16	--
DT-EER (Drive Trace Energy Economy Rating)	0.06	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.22	--
MFR FE (Manufacturer Fuel Economy)	26.2	26.2
NOX (Nitrogen Oxide)	0.0138405	--
HC-NM (Non-methane Hydrocarbon)	0.007646	--
NMOG (Non-methane organic gases)	0.0078769	--
HC-TOTAL (Total Hydrocarbon)	0.0110309	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	339.4433538	339

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	339.4792929	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	339	--	--	--	0.064644	--	339	--	--

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	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Test #	VNSX10094302	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	05/20/2026	Fuel	Gasoline
Fuel Batch ID	610586	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4556	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.001616	--	
CO (Carbon Monoxide)	0.0229099	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.67	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.12	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.43	--	
MFR FE (Manufacturer Fuel Economy)	37.1	37.1	
NOX (Nitrogen Oxide)	0.0018455	--	
HC-NM (Non-methane Hydrocarbon)	0.0013529	--	
NMOG (Non-methane organic gases)	0.0013935	--	
HC-TOTAL (Total Hydrocarbon)	0.0028693	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	240.0406193	240	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	239.8633469	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VNSXV02.0EVR				Evaporative/Refueling Family				VNSXR0158PJA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	240	--	--	--	0.064644	--	240	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0014	1	1.03	--	0	--	0.001	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	0.0018	--	--	--	0.0017	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0014	1	1.03	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0032	--	--	--	--	--	0.005	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0018	--	--	--	0.0017	--	0.004	999.999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Fuel Properties			
Fuel Batch ID	WE3A07	Fuel Calibration Number	9999
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	05/11/2023
Fuel Batch Calibration Effective Date	05/11/2023	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	--
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	490337	Fuel Calibration Number	2
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/11/2024
Fuel Batch Calibration Effective Date	03/11/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.612	Fuel Carbon Mass Fraction (E10)	0.821
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	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	26782	Fuel Calibration Number	1
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	09/05/2018
Fuel Batch Calibration Effective Date	09/05/2018	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18025
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.824	Weight Fraction CO2	--
Fuel Batch ID	470054	Fuel Calibration Number	1
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	05/23/2022
Fuel Batch Calibration Effective Date	05/23/2022	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.748
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17952
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	290377	Fuel Calibration Number	1
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	04/21/2026
Fuel Batch Calibration Effective Date	04/21/2026	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.45	Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	490337	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/11/2024
Fuel Batch Calibration Effective Date	03/11/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17890
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.821	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VNSXV02.0EVR			Evaporative/Refueling Family			VNSXR0158PJA		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.04	1.7	
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.04	999.999	
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999	

Certification Summary Information Report

Test Group		VNSXV02.0EVR			Evaporative/Refueling Family			VNSXR0158PJA	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Federal fuel 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	--	--	--	--	--	--	0.064644	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0.0021	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0002	0.010
150,000 miles	CO	--	--	--	--	--	--	0.04	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.10049	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999

Certification Summary Information Report

Test Group		VNSXV02.0EVR			Evaporative/Refueling Family			VNSXR0158PJA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50	
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	--	--	--	--	--	--	0.04	1.7
150,000 miles	METHANE	--	--	--	--	--	--	0.0026	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0003	0.010
150,000 miles	NMOG	--	1	1.10049	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50	
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	1.10049	--	--	--	0	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.100
4,000 miles	NOX	--	--	--	--	--	--	0	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.04	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.060
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Certification Summary Information Report

Test Group	VNSXV02.0EVR				Evaporative/Refueling Family			VNSXR0158PJA	
Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 50	
Fuel	Gasoline				Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.04	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 50	
Fuel	Gasoline				Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.01	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			Federal Tier 3 Bin 50	
Fuel	Gasoline				Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.064644	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0017	999.999

Certification Summary Information Report

Test Group		VNSXV02.0EVR			Evaporative/Refueling Family			VNSXR0158PJA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.01	10.0

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.064644	999.999

Evaporative/Refueling Standards

Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		

Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.019		

Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0		

Certification Summary Information Report

Test Group		VNSXV02.0EVR		Evaporative/Refueling Family		VNSXR0158PJA	
Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		
Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		
Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		
Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.01	0		
Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		

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Test Group		VNSXV02.0EVR		Evaporative/Refueling Family		VNSXR0158PJA	
Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0		
Evaporative/Refueling Family		VNSXR0158PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.019		

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Test Group		VNSXV02.0EVR	Evaporative/Refueling Family	VNSXR0158PJA
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	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	

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Test Group		VNSXV02.0EVR	Evaporative/Refueling Family		VNSXR0158PJA
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

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Test Group		VNSXV02.0EVR	Evaporative/Refueling Family		VNSXR0158PJA
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

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Test Group		VNSXV02.0EVR	Evaporative/Refueling Family		VNSXR0158PJA
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	