

Application For Certification

Part1

Individual application for 2027 Model Year

Durability Group	VNSXGPGNNAAY
Evaporative / Refueling Families	VNSXR0099PKA (for KICKS FWD, KICKS AWD) VNSXR0099PJA (for SENTRA, SENTRA SL/SR)
Test Group	VNSXJ02.0JMF
Durability Group Description	Four Stroke, Otto Cycle, Gasoline Fueled, DFI Three Way Catalyst
Test Group Description	2.0 Liter L4 Federal 2WD: LDV, 4WD: LDT1 / California LDT1 (for KICKS FWD and KICKS AWD) Federal LDV / California PC (for SENTRA and SENTRA SL/SR)
Exhaust Emission Standard	Federal Interim Tier 4 Bin 20 (Tier 3 Compliant, 150K UL) / California LEV-IV SULEV20
Evaporative Emission Standard	Federal Tier 3 Evap / California LEV-IV Zero Evap (Option 2)
Vehicles Covered	NISSAN KICKS AWD (50 States) NISSAN KICKS FWD (50 States) NISSAN SENTRA (50 States) NISSAN SENTRA SL/SR (50 States)
Vehicles Run	HYE563-00 (FTP-E10 TN TNSX91006477) HYE563-00(HWFE-E10 TN TNSX91006480) HYE563-00(Cold CO-E10 TN TNSX10090205) HYE563-00(US06-E10 TN TNSX91006479) HYE563-00 (SC03-E10 TN TNSX10090208) HYE563-00 (FTP-QDA -E10 TN TNSX10090256) HYB151-00 (Evap 3day-E10 TN SNSX10084647) HYB151-00 (Evap 2day-E10 TN SNSX10084631) HYB151-01 (ORVR-E10 TN SNSX10084637) HYB151-00 (Running Loss-E10 TN SNSX10084646)
Issue Date	April 20, 2026
Response Requested By	June 15, 2026
For Questions, Contact	Takuma Okamoto Telephone No. 248-488-4654

NISSAN MOTOR CO., LTD.

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

SEC5

5. Test Group Description

Test Group Name	Engine Disp. (L)	Arrangement and No. of Cylinder	Vehicle Class	Emission St'd Class	Applicable Emission St'd
VNSXJ02.0JMF	2.0	Inline	/ 4 Federal 2WD: LDV, 4WD: LDT1 / California LDT1 (for KICKS FWD and KICKS AWD) Federal LDV / California PC (for SENTRA and SENTRA SL/SR)	Federal Interim Tier 4 Bin 20 (Tier 3 Compliant, 150K UL) / California LEV-IV SULEV20	Refer to SEC6

Emission Compliance Statement

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

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SEC6

6. Test Vehicle Description

Applicable Emission STD. for EPA Interim Tier 4 Bin 20 (LDV & LDT1)

<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	0.020	0.030	120K	N.A.	N.A.	N.A.	0.030	0.010	
			150K	1.0	0.004	0.003	N.A.	N.A.	
<Cold FTP>			<SFTP>						
Mileage	CO (gpm)	NMHC FEL (gpm)	PM (gpm)	Mileage	COMP NMOG+NOx (gpm)	COMP CO (gpm)	US06 PM (gpm)		
50K	10.0	N.A.	N.A.	150K	0.030	4.2	0.006		
120K	N.A.	0.3	N.A.						
<Early Drive-Away>			<Intermediate Soak Mid-temperature Start>						
Mileage	NMOG+NOx (gpm)	Mileage		NMOG+NOx (gpm)					
150K	N.A.	150K	10-minute	N.A.					
			40-minute	N.A.					
			3 to 12 hour	N.A.					
<EVAP (Tier3)>									
Mileage	D+HS (g/test) Low Altitude	D+HS (g/test) High Altitude	R/L (gpm)	Canister Bleed (gpm)	ORVR (g/gal)	Leak Diameter (inch)			
150K	0.300 (LDV)	0.65 (LDV)	0.05	0.020	0.20	0.02			
	0.300 (LDT1)	0.65 (LDT1)							

Applicable Emission STD. for ARB LEV-IV SULEV20 (PC & LDT1)

<FTP/HWY>				<FTP>				<Cold FTP>			
Mileage	NMOG+NOx (gpm)	Mileage	CO (gpm)	HCHO (gpm)	PM (gpm)	CH4 (gpm)	N2O (gpm)	Mileage	CO (gpm)		
150K	0.020	150K	1.0	0.004	0.001 (0.002 *1)	0.030	0.010	50K	10.0		
<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	0.040	1.0	0.008	150K	0.030 (0.036*2)	9.6	0.006	150K	0.020	1.0	
<Quick drive-away>		<Partial Soak>									
Mileage	NMOG+NOx (gpm)	Mileage	NMOG+NOx (gpm)								
150K	0.032 (0.038*3)	150K	10-minute	0.010							
			40-minute	0.015							
			3 to 12 hour	0.020							
<EVAP (LEV-IV (Option 2)) *4>											
Highest Whole Vehicle			Canister	Leak Diameter							
Mileage	D+HS (g/test)	R/L (gpm)	Bleed (gpm)	ORVR (g/gal)	(inch)						
150K	0.300 (PC)	0.01	0.020	0.20	0.02						
	0.300 (LDT1)										

*1 Nissan selects In-Use Compliance Standard (FTP PM (d)(2)(A)3 in Sec1961.4)

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

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

*4 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
TNSX91006477	Fed Fuel 2day Exh-E10	50 states	X	Refer to the Certification Summary Information Report
TNSX91006480	HWFE-E10	50 states	X	
TNSX10090205	Cold CO-E10	50 states	X	
TNSX91006479	US06-E10	50 states	X	
TNSX10090208	SC03-E10	50 states	X	
TNSX10090256	Quick Drive-Away -E10	50 states	X	
SNSX10084647	CA Fuel 3day Evap-E10	50 states	X	
SNSX10084631	CA Fuel 2day Evap-E10	50 states	X	
SNSX10084637	Fed Fuel refuel (ORVR)-E10	50 states	X	
SNSX10084646	Running Loss-E10	50 states	X	

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Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	03/30/2026 11:28:27 PM
Model Year	2027		

Test Group Information

CSI Type	New	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	LDV, LDT1
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	VNSXGPGNNAAY	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: 25.8 / 24.5 HWY: 30.3 / 28.6 Test No: TNSX91006477(FTP), TNSX91006480(HWY), TNSX91006479(US06), TNSX10090208(SC03), TNSX10090205(Cold)		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/30/2026 10:41:29 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)	99	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				
VNSXR0099PKA-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	119 - KICKS AWD	California + CAA Section 177 states	All Wheel Drive	Continuously Variable	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	10 - KICKS FWD	Federal	2-Wheel Drive, Front	Continuously Variable	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	10 - KICKS FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	119 - KICKS AWD	Federal	All Wheel Drive	Continuously Variable	1	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	N				

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
		--	
Direct Ozone Reduction (DOR) Device		Not Equipped	
Mfr Emission Control Device Comments		--	
Engine Configuration Number 1			
Engine Displacement (liters)	2.0	Engine Rated Horsepower	142
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	1	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	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Fof KICKS FWD		

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Engine Configuration Number 2			
Engine Displacement (liters)	2.0	Engine Rated Horsepower	141
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	1	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	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Fof KICKS AWD		

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA								
Engine Configuration Number 3											
Engine Displacement (liters)	2.0	Engine Rated Horsepower	149								
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	1	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Air fuel	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	--	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	For SENTRA, SENTRA SL/SR										
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	TNSX91006477	TNSX91006479	TNSX10090208	TNSX10090205	TNSX91006480	112.2	24.5	157.6	28.6	--	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP	US06	SC03								
Gasoline	TNSX91006477	TNSX91006479	TNSX10090208								

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	HYB151 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SNSXT02.0RMD	Original Evaporative/Refueling Family	SNSXR0099PDA						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	KICKS AWD SR						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SNSXR0099PDA-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	70	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	AM20DAC8	Rated Horsepower	141						
Displacement (liters)	2								
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, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3254	Equivalent Test Weight (pounds)	3500						
GVWR (lbs)	4211	N/V Ratio	24.4						
Axle Ratio	5.34								
Transmission Type	Continuously Variable	# of Transmission Gears	1						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
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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	36.75	-0.0505	0.02517	12.2	-0.0299	0.02347	13
Cold CO	40.83	-0.0561	0.02797	11.89	-0.0694	0.0263	N/A
US06	36.75	-0.0505	0.02517	12.2	-0.0299	0.02347	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Sport mode

Test #	SNSX10084631	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	SNSX10084623	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	12/05/2023	Fuel	Gasoline
Fuel Batch ID	460335	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	4219	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)	0.1885322	--

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	0.1885	0.0000	0.188	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1885	0.0000	0.188	0.300	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	SNSX10084647	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	SNSX10084645	Test Fuel Type	46 - CARB LEV3 E10 Regular
Test Date	02/02/2024	Fuel	Gasoline
Fuel Batch ID	460335	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	4680	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)	0.1583708	--

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	0.1584	0.0000	0.158	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1584	0.0000	0.158	0.300	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA						
Test #	SNSX10084646	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	SNSX10084645	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	02/02/2024	Fuel	Gasoline						
Fuel Batch ID	460335	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	4663	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> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0000234</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)	0.0000234	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0000234	--							
Manufacturer Test Comments --									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.01	Pass	

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA						
Test #	SNSX10084890	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	05/03/2023	Fuel	Gasoline						
Fuel Batch ID	WJ2A10	Fuel Calibration Number	9999						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	560-2 Okatsukoku								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	9999	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0081</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0081	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0081	--							
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	0.0081	0.0000	0.008	0.020	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0081	0.0000	0.008	0.020	Pass	

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Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Manufacturer Test Vehicle Comments	Sport mode		
Test #	SNSX10084637	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	SNSX10084636	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/19/2024	Fuel	Gasoline
Fuel Batch ID	480182	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	4456	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)	0.1299517	--

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	0.130	0.000	0.13	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.130	0.000	0.13	0.20	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	HYE563 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TNSXJ02.0JMF	Original Evaporative/Refueling Family	TNSXR0099PKA						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	KICKS AWD SR						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	TNSXR0099PKA-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	24	Odometer Correction Factor	0.99						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AM20DAC5	Rated Horsepower	141						
Displacement (liters)	2								
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, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3253	Equivalent Test Weight (pounds)	3500						
GVWR (lbs)	4211	N/V Ratio	24.4						
Axle Ratio	5.34								
Transmission Type	Continuously Variable	# of Transmission Gears	1						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family		VNSXR0099PKA	
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	36.75	-0.0505	0.02517	11.75	-0.0519	0.02382	13	
Cold CO	40.83	-0.0561	0.02797	11.42	-0.1114	0.02672	N/A	
US06	36.75	-0.0505	0.02517	11.75	-0.0519	0.02382	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Sport mode.						

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX10090205	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	02/13/2025	Fuel	Gasoline
Fuel Batch ID	280406	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	4070	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)	419.139325	--
FE BAG 1 (Bag 1 Fuel Economy)	20.3	20.3
CO2 BAG 2 (Bag 2 Carbon Dioxide)	319.1579729	--
FE BAG 2 (Bag 2 Fuel Economy)	27.2	27.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	273.4995386	--
FE BAG 3 (Bag 3 Fuel Economy)	31.8	31.8
METHANE (CH4 - Methane)	0.0124183	--
CO (Carbon Monoxide)	0.6715127	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.14	--
DT-EER (Drive Trace Energy Economy Rating)	0.54	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.07	--
MFR FE (Manufacturer Fuel Economy)	26.4	26.4
HC-NM (Non-methane Hydrocarbon)	0.1427371	--
NMOG (Non-methane organic gases)	0.1571821	--
HC-TOTAL (Total Hydrocarbon)	0.1541953	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	327.3517852	--

Manufacturer Test Comments

--

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PKA		
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 20	CO	0.67	--	--	--	0.05	--	0.7	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.14	--	--	--	0.01	--	0.2	0.3	Pass
CA	50,000 miles	California LEV-IV SULEV20	CO	0.67	--	--	--	0.05	--	0.7	10.0	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX10090256	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	03/12/2025	Fuel	Gasoline
Fuel Batch ID	480315	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	4362	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)	0.0024495	--
CO (Carbon Monoxide)	0.2977865	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.21	--
DT-EER (Drive Trace Energy Economy Rating)	-0.34	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.35	--
MFR FE (Manufacturer Fuel Economy)	34	34
NOX (Nitrogen Oxide)	0.0073741	--
HC-NM (Non-methane Hydrocarbon)	0.0054594	--
NMOG (Non-methane organic gases)	0.0060041	--
HC-TOTAL (Total Hydrocarbon)	0.0077482	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	255.0563714	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PKA		
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 SULEV20	NMOG	0.0060	1	1.09978	--	0.0027	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0134	--	--	--	--	--	0.017	0.032	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0074	--	--	--	0.0005	--	0.008	999.999	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX91006477	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/18/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4775	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA																																																																																			
	<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>280.7434998</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.3166635</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0034675</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0134419</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>265.4525146</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0193626</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0005304</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0001905</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>255.9905701</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0558736</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0021302</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>0.0015788</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0910136</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>2.4086137</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>1.6561899</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>3.2910185</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0073052</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0007383</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.00262</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0028772</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0008212</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0041258</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)	280.7434998	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.3166635	--	FE BAG 1 (Bag 1 Fuel Economy)	999	--	CH4 BAG 1 (Bag 1 Methane)	0.0034675	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0134419	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	265.4525146	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0193626	--	FE BAG 2 (Bag 2 Fuel Economy)	999	--	CH4 BAG 2 (Bag 2 Methane)	0.0005304	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001905	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	255.9905701	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0558736	--	FE BAG 3 (Bag 3 Fuel Economy)	999	--	CH4 BAG 3 (Bag 3 Methane)	0.0021302	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.0015788	--	CO (Carbon Monoxide)	0.0910136	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4086137	--	DT-EER (Drive Trace Energy Economy Rating)	1.6561899	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.2910185	--	MFR FE (Manufacturer Fuel Economy)	999	--	NOX (Nitrogen Oxide)	0.0073052	--	N2O (Nitrous Oxide)	0.0007383	--	HC-NM (Non-methane Hydrocarbon)	0.00262	--	NMOG (Non-methane organic gases)	0.0028772	--	PM (Particulate Matter)	0.0008212	--	HC-TOTAL (Total Hydrocarbon)	0.0041258	--	
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>9999.9999999</td><td>266</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	9999.9999999	266																																																																														
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																																																			
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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>266.0214539</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	266.0214539	--																																																																															
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																																				
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Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family					VNSXR0099PKA		
Manufacturer Test Comments		Amended Report (test number 20250159002); test is related to lab concern CA-25-012. Fuel batch is changed to 2. No other changes were made. Unrounded Result for the following test results were modified by Verify: FE BAG 3, FE BAG 1, FE BAG 2, MFR FE										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	266	--	--	--	0.195222	--	266	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	METHANE	0.0016	--	--	--	0.0010	--	0.003	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	N2O	0.0007	--	--	--	0.0001	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.09	--	--	--	0.15	--	0.2	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO-COMP	0.43	--	--	--	0	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0029	1	1.09817	--	0.0027	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0102	--	--	--	--	--	0.013	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX-COMP	0.0101	--	--	--	0	--	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0073	--	--	--	0.0005	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0008	--	--	--	0.0001	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.09	--	--	--	0.15	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	METHANE	0.0016	--	--	--	0.0012	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	N2O	0.0007	--	--	--	0.0001	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0029	1	1.09817	--	0.0027	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0102	--	--	--	--	--	0.013	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0073	--	--	--	0.0005	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	PM	0.0008	--	--	--	0.0001	--	0.001	0.001	Pass

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

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX91006480	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	06/20/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4794	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)	0.000944	--
CO (Carbon Monoxide)	0.0263035	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.6855652	--
DT-EER (Drive Trace Energy Economy Rating)	0.0219063	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.0054936	--
MFR FE (Manufacturer Fuel Economy)	42.6149216	--
NOX (Nitrogen Oxide)	0.0012746	--
N2O (Nitrous Oxide)	0.0000187	--
HC-NM (Non-methane Hydrocarbon)	0.0003338	--
NMOG (Non-methane organic gases)	0.0003438	--
HC-TOTAL (Total Hydrocarbon)	0.0012483	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	204

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	204.1323547	--

Manufacturer Test Comments

Amended Report (test number 20250159003); test is related to lab concern CA-25-012. Fuel batch calibration is changed to 2 in this file.

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PKA		
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 20	CREE	204	--	--	--	0.195222	--	204	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0016	--	--	--	--	--	0.005	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0013	--	--	--	0.0005	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0016	--	--	--	--	--	0.005	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0013	--	--	--	0.0005	--	0.002	999.999	Pass

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

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX91006479	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	06/20/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4818	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA																																																																				
	<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>433.9769287</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.4643751</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0009921</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0016636</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>270.0612793</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.7394598</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0009177</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0006888</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0009341</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.6787345</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-3.0411317</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.2114309</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-6.1260104</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.002463</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0002013</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0008777</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.000904</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0008122</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0017826</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)	433.9769287	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.4643751	--	FE BAG 1 (Bag 1 Fuel Economy)	999	--	CH4 BAG 1 (Bag 1 Methane)	0.0009921	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0016636	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	270.0612793	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.7394598	--	FE BAG 2 (Bag 2 Fuel Economy)	999	--	CH4 BAG 2 (Bag 2 Methane)	0.0009177	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0006888	--	METHANE (CH4 - Methane)	0.0009341	--	CO (Carbon Monoxide)	0.6787345	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.0411317	--	DT-EER (Drive Trace Energy Economy Rating)	-1.2114309	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.1260104	--	MFR FE (Manufacturer Fuel Economy)	999	--	NOX (Nitrogen Oxide)	0.002463	--	N2O (Nitrous Oxide)	0.0002013	--	HC-NM (Non-methane Hydrocarbon)	0.0008777	--	NMOG (Non-methane organic gases)	0.000904	--	PM (Particulate Matter)	0.0008122	--	HC-TOTAL (Total Hydrocarbon)	0.0017826	--	
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																					
Carbon dioxide	306.2458496	--																																																																					
Manufacturer Test Comments	Amended Report (test number 20250159004); test is related to lab concern CA-25-012. Fuel batch calibration is changed to 2 in this file. Unrounded Result for the following test results were modified by Verify: FE BAG 1, FE BAG 2, MFR FE																																																																						

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PKA		
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 20	CO	0.6787	--	--	--	0.15	--	0.829	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0009	1	1.03	--	0.0027	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0025	--	--	--	0.0005	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0008	--	--	--	0.0001	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.68	--	--	--	0.15	--	0.8	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0009	1	1.03	--	0.0027	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0034	--	--	--	--	--	0.007	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0025	--	--	--	0.0005	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	PM	0.0008	--	--	--	0.0001	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX10090208	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	02/19/2025	Fuel	Gasoline
Fuel Batch ID	480315	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	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	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0020625	--
CO (Carbon Monoxide)	0.1478577	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.31	--
DT-EER (Drive Trace Energy Economy Rating)	-0.89	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.18	--
MFR FE (Manufacturer Fuel Economy)	27.9	27.9
NOX (Nitrogen Oxide)	0.0061271	--
HC-NM (Non-methane Hydrocarbon)	0.0003049	--
NMOG (Non-methane organic gases)	0.000314	--
HC-TOTAL (Total Hydrocarbon)	0.0023393	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	311.0271787	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PKA		
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 20	CO	0.1479	--	--	--	0.15	--	0.298	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0061	--	--	--	0.0005	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.15	--	--	--	0.15	--	0.3	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0064	--	--	--	--	--	0.010	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0061	--	--	--	0.0005	--	0.007	999.999	Pass

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Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX10090212	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	03/14/2025	Fuel	Gasoline
Fuel Batch ID	610557	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4374	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0022316	--
CO (Carbon Monoxide)	0.3114924	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.1	--
DT-EER (Drive Trace Energy Economy Rating)	0.37	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.31	--
MFR FE (Manufacturer Fuel Economy)	36.8	36.8
NOX (Nitrogen Oxide)	0.009695	--
HC-NM (Non-methane Hydrocarbon)	0.0040312	--
NMOG (Non-methane organic gases)	0.0041529	--
HC-TOTAL (Total Hydrocarbon)	0.0061895	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	242.5067001	243

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	242.3479157	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PKA		
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 20	CREE	243	--	--	--	0.195222	--	243	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	METHANE	0.0022	--	--	--	0.0010	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.31	--	--	--	0.15	--	0.5	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0042	1	1.09817	--	0.0027	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0139	--	--	--	--	--	0.017	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0097	--	--	--	0.0005	--	0.010	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.31	--	--	--	0.15	--	0.5	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	METHANE	0.0022	--	--	--	0.0012	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0042	1	1.09817	--	0.0027	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0139	--	--	--	--	--	0.017	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0097	--	--	--	0.0005	--	0.010	999.999	Pass

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

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Test #	TNSX10090213	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/14/2025	Fuel	Gasoline
Fuel Batch ID	610557	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4400	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)	0.000715	--
CO (Carbon Monoxide)	0.0816911	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.5	--
DT-EER (Drive Trace Energy Economy Rating)	0.08	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.64	--
MFR FE (Manufacturer Fuel Economy)	49.5	49.5
NOX (Nitrogen Oxide)	0.002925	--
HC-NM (Non-methane Hydrocarbon)	0.0004926	--
NMOG (Non-methane organic gases)	0.0005074	--
HC-TOTAL (Total Hydrocarbon)	0.0012172	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	180.129491	180

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	180.1932215	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PKA		
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 20	CREE	180	--	--	--	0.195222	--	180	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0005	1	1.03	--	0.0027	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0034	--	--	--	--	--	0.007	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0029	--	--	--	0.0005	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0005	1	1.03	--	0.0027	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0034	--	--	--	--	--	0.007	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0029	--	--	--	0.0005	--	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	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Fuel Properties			
Fuel Batch ID	610557	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/17/2025
Fuel Batch Calibration Effective Date	02/17/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18440
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	Weight Fraction CO2	--
Fuel Batch ID	480315	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/15/2024
Fuel Batch Calibration Effective Date	06/15/2024	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	0.746
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17971
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	460335	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	03/13/2023
Fuel Batch Calibration Effective Date	03/13/2023	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.755
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17877
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	43732	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/13/2025
Fuel Batch Calibration Effective Date	06/13/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17885
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.37	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	480182	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/10/2024
Fuel Batch Calibration Effective Date	01/10/2024	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	0.746
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18113
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.819	Weight Fraction CO2	--
Fuel Batch ID	280406	Fuel Calibration Number	1
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	--
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)	17940
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	WJ2A10	Fuel Calibration Number	9999
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	09/14/2022
Fuel Batch Calibration Effective Date	09/14/2022	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	--
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	--

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PKA

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PKA		
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 SULEV20		
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	1.09978	--	--	--	0.0027	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.032	
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20		
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0.15	1.0	
150,000 miles	METHANE	--	--	--	--	--	--	0.0012	0.030	
150,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010	
150,000 miles	NMOG	--	1	1.09817	--	--	--	0.0027	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020	
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.001	

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PKA	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.195222	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0.0010	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.15	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.09817	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.15	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PKA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.15	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.15	1.0
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PKA	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.195222	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.15	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.05	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.05	10.0

Certification Summary Information Report

Test Group		VNSXJ02.0JMF		Evaporative/Refueling Family		VNSXR0099PKA	
Evaporative/Refueling Standards							
Evaporative/Refueling Family		VNSXR0099PKA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0099PKA		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		VNSXR0099PKA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		
Evaporative/Refueling Family		VNSXR0099PKA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0099PKA		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		

Certification Summary Information Report

Test Group		VNSXJ02.0JMF		Evaporative/Refueling Family		VNSXR0099PKA	
Evaporative/Refueling Family		VNSXR0099PKA		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	0.000		
Evaporative/Refueling Family		VNSXR0099PKA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000		
Evaporative/Refueling Family		VNSXR0099PKA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0099PKA		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	0.000		
Evaporative/Refueling Family		VNSXR0099PKA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		

Certification Summary Information Report

Test Group		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PKA
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PKA
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

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Test Group		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PKA
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		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PKA
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	03/30/2026 11:28:27 PM
Model Year	2027		

Test Group Information

CSI Type	New	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	LDV, LDT1
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	VNSXGPGNNAAY	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: 25.8 / 24.5 HWY: 30.3 / 28.6 Test No: TNSX91006477(FTP), TNSX91006480(HWY), TNSX91006479(US06), TNSX10090208(SC03), TNSX10090205(Cold)		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
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Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	03/30/2026 10:44:46 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)	99	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
VNSXR0099PJA-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	3 - SENTRA	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	12 - SENTRA SL/SR	Federal	2-Wheel Drive, Front	Continuously Variable	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	12 - SENTRA SL/SR	California + CAA Section 177 states	2-Wheel Drive, Front	Continuously Variable	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	3 - SENTRA	Federal	2-Wheel Drive, Front	Continuously Variable	1	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	N

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
		--	
Direct Ozone Reduction (DOR) Device		Not Equipped	
Mfr Emission Control Device Comments		--	
Engine Configuration Number 1			
Engine Displacement (liters)	2.0	Engine Rated Horsepower	142
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	1	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	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Fof KICKS FWD		

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Engine Configuration Number 2			
Engine Displacement (liters)	2.0	Engine Rated Horsepower	141
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	1	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	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Fof KICKS AWD		

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA								
Engine Configuration Number 3											
Engine Displacement (liters)	2.0	Engine Rated Horsepower	149								
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	1	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Air fuel	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	--	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	For SENTRA, SENTRA SL/SR										
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	TNSX91006477	TNSX91006479	TNSX10090208	TNSX10090205	TNSX91006480	112.2	24.5	157.6	28.6	--	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP	US06	SC03								
Gasoline	TNSX91006477	TNSX91006479	TNSX10090208								

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	HYB151 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SNSXT02.0RMD	Original Evaporative/Refueling Family	SNSXR0099PDA						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	KICKS AWD SR						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SNSXR0099PDA-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	70	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	AM20DAC8	Rated Horsepower	141						
Displacement (liters)	2								
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, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3254	Equivalent Test Weight (pounds)	3500						
GVWR (lbs)	4211	N/V Ratio	24.4						
Axle Ratio	5.34								
Transmission Type	Continuously Variable	# of Transmission Gears	1						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
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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	36.75	-0.0505	0.02517	12.2	-0.0299	0.02347	13
Cold CO	40.83	-0.0561	0.02797	11.89	-0.0694	0.0263	N/A
US06	36.75	-0.0505	0.02517	12.2	-0.0299	0.02347	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Sport mode

Test #	SNSX10084631	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	SNSX10084623	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	12/05/2023	Fuel	Gasoline
Fuel Batch ID	460335	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	4219	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)	0.1885322	--

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	0.1885	0.0000	0.188	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1885	0.0000	0.188	0.300	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	SNSX10084647	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	SNSX10084645	Test Fuel Type	46 - CARB LEV3 E10 Regular
Test Date	02/02/2024	Fuel	Gasoline
Fuel Batch ID	460335	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	4680	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)	0.1583708	--

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	0.1584	0.0000	0.158	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.1584	0.0000	0.158	0.300	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA						
Test #	SNSX10084646	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	SNSX10084645	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline						
Test Date	02/02/2024	Fuel	Gasoline						
Fuel Batch ID	460335	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	4663	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> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0000234</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)	0.0000234	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0000234	--							
Manufacturer Test Comments --									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.01	Pass	

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	SNSX10084890	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	05/03/2023	Fuel	Gasoline
Fuel Batch ID	WJ2A10	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)	0.0081	--

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	0.0081	0.0000	0.008	0.020	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0081	0.0000	0.008	0.020	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
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Emission Data Vehicle Information

Vehicle ID / Configuration	HYB151 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	SNSXT02.0RMD	Original Evaporative/Refueling Family	SNSXR0099PDA
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	KICKS AWD SR
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	SNSXR0099PDA-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	70	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	AM20DAC8	Rated Horsepower	141
Displacement (liters)	2		
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, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3254	Equivalent Test Weight (pounds)	3500
GVWR (lbs)	4211	N/V Ratio	24.4
Axle Ratio	5.34		
Transmission Type	Continuously Variable	# of Transmission Gears	1
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	36.75	-0.0505	0.02517	12.2	-0.0299	0.02347	13

Emission Control Device Comments --

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Manufacturer Test Vehicle Comments	Sport mode		
Test #	SNSX10084637	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	SNSX10084636	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/19/2024	Fuel	Gasoline
Fuel Batch ID	480182	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	4456	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)	0.1299517	--

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	0.130	0.000	0.13	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.130	0.000	0.13	0.20	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	HYE563 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TNSXJ02.0JMF	Original Evaporative/Refueling Family	TNSXR0099PKA						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	KICKS AWD SR						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	TNSXR0099PKA-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	24	Odometer Correction Factor	0.99						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AM20DAC5	Rated Horsepower	141						
Displacement (liters)	2								
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, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3253	Equivalent Test Weight (pounds)	3500						
GVWR (lbs)	4211	N/V Ratio	24.4						
Axle Ratio	5.34								
Transmission Type	Continuously Variable	# of Transmission Gears	1						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family		VNSXR0099PJA	
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	36.75	-0.0505	0.02517	11.75	-0.0519	0.02382	13	
Cold CO	40.83	-0.0561	0.02797	11.42	-0.1114	0.02672	N/A	
US06	36.75	-0.0505	0.02517	11.75	-0.0519	0.02382	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Sport mode.						

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX10090205	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	02/13/2025	Fuel	Gasoline
Fuel Batch ID	280406	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	4070	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)	419.139325	--
FE BAG 1 (Bag 1 Fuel Economy)	20.3	20.3
CO2 BAG 2 (Bag 2 Carbon Dioxide)	319.1579729	--
FE BAG 2 (Bag 2 Fuel Economy)	27.2	27.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	273.4995386	--
FE BAG 3 (Bag 3 Fuel Economy)	31.8	31.8
METHANE (CH4 - Methane)	0.0124183	--
CO (Carbon Monoxide)	0.6715127	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.14	--
DT-EER (Drive Trace Energy Economy Rating)	0.54	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.07	--
MFR FE (Manufacturer Fuel Economy)	26.4	26.4
HC-NM (Non-methane Hydrocarbon)	0.1427371	--
NMOG (Non-methane organic gases)	0.1571821	--
HC-TOTAL (Total Hydrocarbon)	0.1541953	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	327.3517852	--

Manufacturer Test Comments

--

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
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 20	CO	0.67	--	--	--	0.05	--	0.7	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	HC-NM	0.14	--	--	--	0.01	--	0.2	0.3	Pass
CA	50,000 miles	California LEV-IV SULEV20	CO	0.67	--	--	--	0.05	--	0.7	10.0	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX10090256	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	03/12/2025	Fuel	Gasoline
Fuel Batch ID	480315	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	4362	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)	0.0024495	--
CO (Carbon Monoxide)	0.2977865	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.21	--
DT-EER (Drive Trace Energy Economy Rating)	-0.34	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.35	--
MFR FE (Manufacturer Fuel Economy)	34	34
NOX (Nitrogen Oxide)	0.0073741	--
HC-NM (Non-methane Hydrocarbon)	0.0054594	--
NMOG (Non-methane organic gases)	0.0060041	--
HC-TOTAL (Total Hydrocarbon)	0.0077482	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	255.0563714	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
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 SULEV20	NMOG	0.0060	1	1.09978	--	0.0027	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0134	--	--	--	--	--	0.017	0.032	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0074	--	--	--	0.0005	--	0.008	999.999	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX91006477	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/18/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4775	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA																																																																																			
	<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>280.7434998</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.3166635</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0034675</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0134419</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>265.4525146</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.0193626</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0005304</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0001905</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>255.9905701</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0558736</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0021302</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>0.0015788</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0910136</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>2.4086137</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>1.6561899</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>3.2910185</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0073052</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0007383</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.00262</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0028772</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0008212</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0041258</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)	280.7434998	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.3166635	--	FE BAG 1 (Bag 1 Fuel Economy)	999	--	CH4 BAG 1 (Bag 1 Methane)	0.0034675	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0134419	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	265.4525146	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0193626	--	FE BAG 2 (Bag 2 Fuel Economy)	999	--	CH4 BAG 2 (Bag 2 Methane)	0.0005304	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001905	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	255.9905701	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0558736	--	FE BAG 3 (Bag 3 Fuel Economy)	999	--	CH4 BAG 3 (Bag 3 Methane)	0.0021302	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.0015788	--	CO (Carbon Monoxide)	0.0910136	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4086137	--	DT-EER (Drive Trace Energy Economy Rating)	1.6561899	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.2910185	--	MFR FE (Manufacturer Fuel Economy)	999	--	NOX (Nitrogen Oxide)	0.0073052	--	N2O (Nitrous Oxide)	0.0007383	--	HC-NM (Non-methane Hydrocarbon)	0.00262	--	NMOG (Non-methane organic gases)	0.0028772	--	PM (Particulate Matter)	0.0008212	--	HC-TOTAL (Total Hydrocarbon)	0.0041258	--	
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>9999.9999999</td><td>266</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	9999.9999999	266																																																																														
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																																				
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Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
Manufacturer Test Comments		Amended Report (test number 20250159002); test is related to lab concern CA-25-012. Fuel batch is changed to 2. No other changes were made. Unrounded Result for the following test results were modified by Verify: FE BAG 3, FE BAG 1, FE BAG 2, MFR FE										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 20	CREE	266	--	--	--	0.195222	--	266	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	METHANE	0.0016	--	--	--	0.0010	--	0.003	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 20	N2O	0.0007	--	--	--	0.0001	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.09	--	--	--	0.15	--	0.2	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO-COMP	0.43	--	--	--	0	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0029	1	1.09817	--	0.0027	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0102	--	--	--	--	--	0.013	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX-COMP	0.0101	--	--	--	0	--	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0073	--	--	--	0.0005	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0008	--	--	--	0.0001	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.09	--	--	--	0.15	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	METHANE	0.0016	--	--	--	0.0012	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	N2O	0.0007	--	--	--	0.0001	--	0.001	0.010	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0029	1	1.09817	--	0.0027	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0102	--	--	--	--	--	0.013	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0073	--	--	--	0.0005	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	PM	0.0008	--	--	--	0.0001	--	0.001	0.001	Pass

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

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX91006480	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	06/20/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4794	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)	0.000944	--
CO (Carbon Monoxide)	0.0263035	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.6855652	--
DT-EER (Drive Trace Energy Economy Rating)	0.0219063	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.0054936	--
MFR FE (Manufacturer Fuel Economy)	42.6149216	--
NOX (Nitrogen Oxide)	0.0012746	--
N2O (Nitrous Oxide)	0.0000187	--
HC-NM (Non-methane Hydrocarbon)	0.0003338	--
NMOG (Non-methane organic gases)	0.0003438	--
HC-TOTAL (Total Hydrocarbon)	0.0012483	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	204

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	204.1323547	--

Manufacturer Test Comments

Amended Report (test number 20250159003); test is related to lab concern CA-25-012. Fuel batch calibration is changed to 2 in this file.

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
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 20	CREE	204	--	--	--	0.195222	--	204	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0016	--	--	--	--	--	0.005	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0013	--	--	--	0.0005	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0016	--	--	--	--	--	0.005	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0013	--	--	--	0.0005	--	0.002	999.999	Pass

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

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX91006479	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	06/20/2025	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4818	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA																																																																					
	<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>433.9769287</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.4643751</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0009921</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0016636</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>270.0612793</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.7394598</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0009177</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0006888</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0009341</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.6787345</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-3.0411317</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.2114309</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-6.1260104</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.002463</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0002013</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0008777</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.000904</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0008122</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0017826</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)	433.9769287	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.4643751	--	FE BAG 1 (Bag 1 Fuel Economy)	999	--	CH4 BAG 1 (Bag 1 Methane)	0.0009921	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0016636	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	270.0612793	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.7394598	--	FE BAG 2 (Bag 2 Fuel Economy)	999	--	CH4 BAG 2 (Bag 2 Methane)	0.0009177	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0006888	--	METHANE (CH4 - Methane)	0.0009341	--	CO (Carbon Monoxide)	0.6787345	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.0411317	--	DT-EER (Drive Trace Energy Economy Rating)	-1.2114309	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.1260104	--	MFR FE (Manufacturer Fuel Economy)	999	--	NOX (Nitrogen Oxide)	0.002463	--	N2O (Nitrous Oxide)	0.0002013	--	HC-NM (Non-methane Hydrocarbon)	0.0008777	--	NMOG (Non-methane organic gases)	0.000904	--	PM (Particulate Matter)	0.0008122	--	HC-TOTAL (Total Hydrocarbon)	0.0017826	--		
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	Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																					
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	Manufacturer Test Comments	Amended Report (test number 20250159004); test is related to lab concern CA-25-012. Fuel batch calibration is changed to 2 in this file. Unrounded Result for the following test results were modified by Verify: FE BAG 1, FE BAG 2, MFR FE																																																																						

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
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 20	CO	0.6787	--	--	--	0.15	--	0.829	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0009	1	1.03	--	0.0027	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0025	--	--	--	0.0005	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	PM	0.0008	--	--	--	0.0001	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.68	--	--	--	0.15	--	0.8	9.6	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0009	1	1.03	--	0.0027	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0034	--	--	--	--	--	0.007	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0025	--	--	--	0.0005	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	PM	0.0008	--	--	--	0.0001	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX10090208	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	02/19/2025	Fuel	Gasoline
Fuel Batch ID	480315	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	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	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0020625	--
CO (Carbon Monoxide)	0.1478577	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.31	--
DT-EER (Drive Trace Energy Economy Rating)	-0.89	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.18	--
MFR FE (Manufacturer Fuel Economy)	27.9	27.9
NOX (Nitrogen Oxide)	0.0061271	--
HC-NM (Non-methane Hydrocarbon)	0.0003049	--
NMOG (Non-methane organic gases)	0.000314	--
HC-TOTAL (Total Hydrocarbon)	0.0023393	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	311.0271787	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
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 20	CO	0.1479	--	--	--	0.15	--	0.298	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0061	--	--	--	0.0005	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.15	--	--	--	0.15	--	0.3	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0003	1	1.03	--	0.0027	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0064	--	--	--	--	--	0.010	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0061	--	--	--	0.0005	--	0.007	999.999	Pass

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
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Emission Data Vehicle Information

Vehicle ID / Configuration	HYE563 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	TNSXJ02.0JMF	Original Evaporative/Refueling Family	TNSXR0099PKA
Original Test Vehicle Model Year	2026		
Vehicle Model			
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	KICKS AWD SR

Leak Family Details

Leak Family Identifier	001	Leak Family Name	TNSXR0099PKA-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	24	Odometer Correction Factor	0.99
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AM20DAC5	Rated Horsepower	141
Displacement (liters)	2		
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, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3253	Equivalent Test Weight (pounds)	3500
GVWR (lbs)	4211	N/V Ratio	24.4
Axle Ratio	5.34		
Transmission Type	Continuously Variable	# of Transmission Gears	1
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	36.75	-0.0505	0.02517	11.75	-0.0519	0.02382	13

Emission Control Device Comments --

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Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX10090212	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	03/14/2025	Fuel	Gasoline
Fuel Batch ID	610557	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4374	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0022316	--
CO (Carbon Monoxide)	0.3114924	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.1	--
DT-EER (Drive Trace Energy Economy Rating)	0.37	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.31	--
MFR FE (Manufacturer Fuel Economy)	36.8	36.8
NOX (Nitrogen Oxide)	0.009695	--
HC-NM (Non-methane Hydrocarbon)	0.0040312	--
NMOG (Non-methane organic gases)	0.0041529	--
HC-TOTAL (Total Hydrocarbon)	0.0061895	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	242.5067001	243

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	242.3479157	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
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 20	CREE	243	--	--	--	0.195222	--	243	--	--
Fed	120,000 miles	Federal Tier 3 Bin 20	METHANE	0.0022	--	--	--	0.0010	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	CO	0.31	--	--	--	0.15	--	0.5	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0042	1	1.09817	--	0.0027	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0139	--	--	--	--	--	0.017	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0097	--	--	--	0.0005	--	0.010	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	CO	0.31	--	--	--	0.15	--	0.5	1.0	Pass
CA	150,000 miles	California LEV-IV SULEV20	METHANE	0.0022	--	--	--	0.0012	--	0.003	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0042	1	1.09817	--	0.0027	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0139	--	--	--	--	--	0.017	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0097	--	--	--	0.0005	--	0.010	999.999	Pass

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

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Test #	TNSX10090213	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/14/2025	Fuel	Gasoline
Fuel Batch ID	610557	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4400	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)	0.000715	--	
CO (Carbon Monoxide)	0.0816911	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.5	--	
DT-EER (Drive Trace Energy Economy Rating)	0.08	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.64	--	
MFR FE (Manufacturer Fuel Economy)	49.5	49.5	
NOX (Nitrogen Oxide)	0.002925	--	
HC-NM (Non-methane Hydrocarbon)	0.0004926	--	
NMOG (Non-methane organic gases)	0.0005074	--	
HC-TOTAL (Total Hydrocarbon)	0.0012172	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	180.129491	180	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	180.1932215	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VNSXJ02.0JMF				Evaporative/Refueling Family				VNSXR0099PJA		
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 20	CREE	180	--	--	--	0.195222	--	180	--	--
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG	0.0005	1	1.03	--	0.0027	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NMOG+NOX	0.0034	--	--	--	--	--	0.007	0.020	Pass
Fed	150,000 miles	Federal Tier 3 Bin 20	NOX	0.0029	--	--	--	0.0005	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG	0.0005	1	1.03	--	0.0027	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV20	NMOG+NOX	0.0034	--	--	--	--	--	0.007	0.020	Pass
CA	150,000 miles	California LEV-IV SULEV20	NOX	0.0029	--	--	--	0.0005	--	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	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Fuel Properties			
Fuel Batch ID	610557	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/17/2025
Fuel Batch Calibration Effective Date	02/17/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18440
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	Weight Fraction CO2	--
Fuel Batch ID	480315	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/15/2024
Fuel Batch Calibration Effective Date	06/15/2024	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	0.746
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17971
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	460335	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	03/13/2023
Fuel Batch Calibration Effective Date	03/13/2023	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.755
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17877
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	43732	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/13/2025
Fuel Batch Calibration Effective Date	06/13/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.749
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17885
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.37	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	480182	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/10/2024
Fuel Batch Calibration Effective Date	01/10/2024	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	0.746
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18113
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.819	Weight Fraction CO2	--
Fuel Batch ID	280406	Fuel Calibration Number	1
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	--
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)	17940
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	WJ2A10	Fuel Calibration Number	9999
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	09/14/2022
Fuel Batch Calibration Effective Date	09/14/2022	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	--
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	--

Certification Summary Information Report

Test Group	VNSXJ02.0JMF	Evaporative/Refueling Family	VNSXR0099PJA

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PJA	
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 SULEV20	
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	1.09978	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.032
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.15	1.0
150,000 miles	METHANE	--	--	--	--	--	--	0.0012	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	NMOG	--	1	1.09817	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.001

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PJA	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.195222	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0.0010	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.15	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.09817	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.15	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PJA	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.15	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0001	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.15	1.0
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999

Certification Summary Information Report

Test Group		VNSXJ02.0JMF			Evaporative/Refueling Family			VNSXR0099PJA	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.195222	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.020
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.15	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0027	999.999
150,000 miles	NOX	--	--	--	--	--	--	0.0005	999.999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 20	
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	--	--	--	--	--	--	0.05	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.01	0.3

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV20	
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	--	--	--	--	--	--	0.05	10.0

Certification Summary Information Report

Test Group		VNSXJ02.0JMF		Evaporative/Refueling Family		VNSXR0099PJA	
Evaporative/Refueling Standards							
Evaporative/Refueling Family		VNSXR0099PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0099PJA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		California fuel 2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0099PJA		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		
Evaporative/Refueling Family		VNSXR0099PJA		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	0.000		
Evaporative/Refueling Family		VNSXR0099PJA		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		

Certification Summary Information Report

Test Group		VNSXJ02.0JMF		Evaporative/Refueling Family		VNSXR0099PJA	
Evaporative/Refueling Family		VNSXR0099PJA		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	0.000		
Evaporative/Refueling Family		VNSXR0099PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0.0000		
Evaporative/Refueling Family		VNSXR0099PJA		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		VNSXR0099PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		
Evaporative/Refueling Family		VNSXR0099PJA		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		

Certification Summary Information Report

Test Group		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PJA
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PJA
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		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PJA
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		VNSXJ02.0JMF	Evaporative/Refueling Family		VNSXR0099PJA
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	

9. OBD System Description

Refer to the confidential section.

10. Description of Alternate-fueled Vehicles

N.A.

11. AECD Description

Refer to the confidential section.

SEC12(2)-(c)

12. Description of Vehicles Covered by Certificate and Test Parameter

(2) Shifting

(c) Manual transmission

N.A.

VNSXJ02.0JMF

Issue date: Refer to cover page

Revision date:

SEC12(3)

12. Description of Vehicles Covered by Certificate and Test Parameters

(3) List of Certified Vehicles

Durability Group VNSXGPGNNAAY
Test Group VNSXJ02.0JMF

Evap. Family	Fuel	Carline	Trim Line	Trans./OD	GVWR (lbs)	ETW (lbs)	Engine Code	Emission Control System						Engine Displ. (L)	Valves cyl.		SIL	Fuel Tank Vol. (gal)	Other	Vehicle Category	Sales Area	
								Cat	EGR	Air	Fuel sys	Aspiration	Other		Intake	Exhaust					50S	CAN
VNSXR0099PJA	Gasoline	SENTRA SL/SR	SL	CVT / Yes	4123	3500	AM20DAC9	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	12.4	N.A.	Federal LDV / California PC	X	X
			SR	CVT / Yes	4123	3500	AM20DAC9	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	12.4	N.A.	Federal LDV / California PC	X	X
		SENTRA	S	CVT / Yes	4079	3375	AM20DAC9	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	12.4	N.A.	Federal LDV / California PC	X	X
			SV	CVT / Yes	4079	3375	AM20DAC9	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	12.4	N.A.	Federal LDV / California PC	X	X
VNSXR0099PKA		KICKS AWD	S	CVT / Yes	4090	3500	AM20DAC5	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	12.4	*1	Federal LDT1 / California LDT1	X	X
			SR	CVT / Yes	4211	3500	AM20DAC5	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	12.4	*1	Federal LDT1 / California LDT1	X	X
			SV	CVT / Yes	4167	3500	AM20DAC5	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	12.4	*1	Federal LDT1 / California LDT1	X	X
		KICKS FWD	S	CVT / Yes	3902	3250	AM20DAC4	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	11.9	*1	Federal LDV / California LDT1	X	X
			SR	CVT / Yes	4023	3375	AM20DAC4	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	11.9	*1	Federal LDV / California LDT1	X	
			SV	CVT / Yes	3946	3375	AM20DAC4	TWC	Electric	N.A.	DFI	Natural	N.A.	2.0	2	2	N.A.	11.9	*1	Federal LDV / California LDT1	X	X

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

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12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAY
Test Group VNSXJ02.0JMF

Carline	Trim Line	Trans.	ETW (lbs)	Tire		Axle Ratio	N/V Ratio	TRLHP	Coastdown Time (sec.)	Single Roll Dyno Terms			Shift Schedule ID		Test Proc	Cooling Fan	Special Test	Sales Area	
				Size	Type					A	B	C	City	Hwy		Config	Proc	50S	CAN
KICKS AWD	S	CVT	3500	215/65R16	All season	5.341	25.0	12.9	16.74	40.34	-0.0587	0.02384	FTA	HWA	Part1066	*1	*2, *3, *4	X	X
	SR	CVT	3500	215/60R17	All season	5.341	24.7	12.6	17.14	37.18	-0.0588	0.02421	FTA	HWA	Part1066	*1	*2, *3, *4	X	X
	SR	CVT	3500	225/45R19	All season	5.341	24.4	13.0	16.72	36.75	-0.0505	0.02517	FTA	HWA	Part1066	*1	*2, *3, *4	X	X
	SV	CVT	3500	215/60R17	All season	5.341	24.7	12.6	17.14	37.18	-0.0588	0.02421	FTA	HWA	Part1066	*1	*2, *3, *4	X	X
KICKS FWD	S	CVT	3250	215/65R16	All season	5.341	25.0	12.0	16.75	33.98	-0.0513	0.02345	FTA	HWA	Part1066	*1	*2, *3	X	X
	SR	CVT	3375	215/60R17	All season	5.341	24.7	11.8	17.75	30.69	-0.0279	0.02360	FTA	HWA	Part1066	*1	*2, *3	X	
	SR	CVT	3375	225/45R19	All season	5.341	24.4	12.2	17.16	31.02	-0.0111	0.02435	FTA	HWA	Part1066	*1	*2, *3	X	
	SV	CVT	3375	215/60R17	All season	5.341	24.7	11.8	17.75	30.69	-0.0279	0.02360	FTA	HWA	Part1066	*1	*2, *3	X	X
SENTRA SL/SR	SL	CVT	3500	215/50R17	All season	5.034	24.7	10.7	20.18	40.03	-0.2460	0.02108	FTA	HWA	Part1066	*1	*2, *3	X	X
	SR	CVT	3500	215/45R18	All season	5.034	24.2	11.1	19.46	41.57	-0.2263	0.02126	FTA	HWA	Part1066	*1	*2, *3	X	X
SENTRA	S	CVT	3375	205/60R16	All season	5.034	24.7	10.2	20.54	38.42	-0.2543	0.02019	FTA	HWA	Part1066	*1	*2, *3	X	X
	SV	CVT	3375	205/60R16	All season	5.034	24.7	10.4	20.10	40.19	-0.2424	0.01992	FTA	HWA	Part1066	*1	*2, *3	X	X

*1 The road speed fan to all test cycles.

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

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

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

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Issue date: Refer to cover page

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SEC12(4)-2-1

12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAY

Test Group VNSXJ02.0JMF

Fuel Temperature Profile at the Running Loss Testing (for EPA) (for KICKS FWD and KICKS AWD)

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	97.6	26.0	101.4	39.0	105.5	52.0	110.1	65.0	113.9
0.5	95.1	13.5	97.7	26.5	101.6	39.5	105.7	52.5	110.3	65.5	114.0
1.0	95.2	14.0	97.8	27.0	101.8	40.0	105.8	53.0	110.3	66.0	114.1
1.5	95.2	14.5	98.1	27.5	101.9	40.5	106.1	53.5	110.5	66.5	114.3
2.0	95.2	15.0	98.2	28.0	102.1	41.0	106.3	54.0	110.7	67.0	114.3
2.5	95.2	15.5	98.3	28.5	102.2	41.5	106.4	54.5	110.9	67.5	114.4
3.0	95.2	16.0	98.4	29.0	102.3	42.0	106.6	55.0	111.0	68.0	114.6
3.5	95.3	16.5	98.5	29.5	102.6	42.5	106.7	55.5	111.2	68.5	114.8
4.0	95.5	17.0	98.7	30.0	102.7	43.0	106.9	56.0	111.2	69.0	114.8
4.5	95.5	17.5	99.0	30.5	102.7	43.5	107.2	56.5	111.6	69.5	114.9
5.0	95.6	18.0	99.1	31.0	103.0	44.0	107.2	57.0	111.6	70.0	115.2
5.5	95.7	18.5	99.2	31.5	103.1	44.5	107.4	57.5	111.7	70.5	115.3
6.0	95.8	19.0	99.4	32.0	103.2	45.0	107.6	58.0	111.8	71.0	115.4
6.5	96.0	19.5	99.5	32.5	103.6	45.5	107.9	58.5	112.1	71.5	115.4
7.0	96.0	20.0	99.8	33.0	103.6	46.0	108.0	59.0	112.1	72.0	115.6
7.5	96.1	20.5	99.9	33.5	103.8	46.5	108.1	59.5	112.3		
8.0	96.3	21.0	100.0	34.0	103.9	47.0	108.3	60.0	112.5		
8.5	96.4	21.5	100.0	34.5	104.0	47.5	108.5	60.5	112.6		
9.0	96.5	22.0	100.3	35.0	104.2	48.0	108.6	61.0	112.6		
9.5	96.7	22.5	100.4	35.5	104.5	48.5	108.9	61.5	112.8		
10.0	96.8	23.0	100.6	36.0	104.5	49.0	109.0	62.0	113.0		
10.5	96.8	23.5	100.8	36.5	104.6	49.5	109.2	62.5	113.2		
11.0	97.2	24.0	100.9	37.0	104.9	50.0	109.3	63.0	113.4		
11.5	97.2	24.5	101.0	37.5	105.2	50.5	109.4	63.5	113.5		
12.0	97.3	25.0	101.2	38.0	105.3	51.0	109.8	64.0	113.6		
12.5	97.4	25.5	101.3	38.5	105.4	51.5	109.9	64.5	113.6		

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Issue date: Refer to cover page

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SEC12(4)-2-2

12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAY

Test Group VNSXJ02.0JMF

Fuel Temperature Profile at the Running Loss Testing (for EPA) (for SENTRA and SENTRA SL/SR)

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	98.2	26.0	102.0	39.0	106.4	52.0	111.2	65.0	115.3
0.5	95.1	13.5	98.3	26.5	102.2	39.5	106.7	52.5	111.5	65.5	115.5
1.0	95.2	14.0	98.3	27.0	102.3	40.0	106.9	53.0	111.7	66.0	115.6
1.5	95.4	14.5	98.5	27.5	102.4	40.5	107.1	53.5	111.9	66.5	115.8
2.0	95.5	15.0	98.7	28.0	102.7	41.0	107.2	54.0	112.1	67.0	115.9
2.5	95.5	15.5	98.9	28.5	102.7	41.5	107.4	54.5	112.1	67.5	116.1
3.0	95.6	16.0	98.9	29.0	102.9	42.0	107.6	55.0	112.3	68.0	116.1
3.5	95.7	16.5	99.1	29.5	103.1	42.5	107.9	55.5	112.6	68.5	116.2
4.0	95.7	17.0	99.2	30.0	103.3	43.0	108.0	56.0	112.6	69.0	116.4
4.5	96.0	17.5	99.6	30.5	103.5	43.5	108.1	56.5	112.8	69.5	116.5
5.0	96.0	18.0	99.6	31.0	103.6	44.0	108.3	57.0	113.0	70.0	116.6
5.5	96.2	18.5	99.7	31.5	103.9	44.5	108.5	57.5	113.1	70.5	116.8
6.0	96.3	19.0	100.0	32.0	104.1	45.0	108.6	58.0	113.4	71.0	116.9
6.5	96.4	19.5	100.0	32.5	104.1	45.5	109.0	58.5	113.4	71.5	117.0
7.0	96.5	20.0	100.1	33.0	104.4	46.0	109.2	59.0	113.5	72.0	117.1
7.5	96.6	20.5	100.5	33.5	104.5	46.5	109.3	59.5	113.7		
8.0	96.9	21.0	100.6	34.0	104.7	47.0	109.4	60.0	113.9		
8.5	97.0	21.5	100.6	34.5	104.9	47.5	109.7	60.5	114.0		
9.0	97.0	22.0	100.9	35.0	105.0	48.0	109.9	61.0	114.0		
9.5	97.2	22.5	101.0	35.5	105.3	48.5	109.9	61.5	114.3		
10.0	97.3	23.0	101.1	36.0	105.3	49.0	110.1	62.0	114.4		
10.5	97.4	23.5	101.3	36.5	105.6	49.5	110.3	62.5	114.7		
11.0	97.5	24.0	101.5	37.0	105.7	50.0	110.6	63.0	114.8		
11.5	97.8	24.5	101.6	37.5	106.0	50.5	110.8	63.5	114.9		
12.0	97.8	25.0	101.8	38.0	106.2	51.0	110.9	64.0	115.0		
12.5	98.1	25.5	101.9	38.5	106.3	51.5	111.1	64.5	115.2		

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12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAY

Test Group VNSXJ02.0JMF

Fuel Temperature Profile at the Running Loss Testing (for ARB) (for KICKS FWD and KICKS AWD)

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	107.7	26.0	111.5	39.0	115.6	52.0	120.2	65.0	124.0
0.5	105.2	13.5	107.8	26.5	111.7	39.5	115.8	52.5	120.4	65.5	124.1
1.0	105.3	14.0	107.9	27.0	111.8	40.0	115.9	53.0	120.4	66.0	124.2
1.5	105.3	14.5	108.1	27.5	112.0	40.5	116.2	53.5	120.6	66.5	124.3
2.0	105.3	15.0	108.3	28.0	112.2	41.0	116.3	54.0	120.7	67.0	124.3
2.5	105.3	15.5	108.4	28.5	112.3	41.5	116.5	54.5	121.0	67.5	124.5
3.0	105.3	16.0	108.5	29.0	112.4	42.0	116.7	55.0	121.1	68.0	124.7
3.5	105.4	16.5	108.6	29.5	112.6	42.5	116.8	55.5	121.3	68.5	124.9
4.0	105.5	17.0	108.8	30.0	112.7	43.0	117.0	56.0	121.3	69.0	124.9
4.5	105.6	17.5	109.0	30.5	112.8	43.5	117.2	56.5	121.6	69.5	125.0
5.0	105.7	18.0	109.1	31.0	113.1	44.0	117.3	57.0	121.6	70.0	125.2
5.5	105.8	18.5	109.3	31.5	113.2	44.5	117.5	57.5	121.8	70.5	125.3
6.0	105.9	19.0	109.5	32.0	113.3	45.0	117.7	58.0	121.9	71.0	125.5
6.5	106.1	19.5	109.6	32.5	113.6	45.5	118.0	58.5	122.2	71.5	125.5
7.0	106.1	20.0	109.9	33.0	113.7	46.0	118.0	59.0	122.2	72.0	125.7
7.5	106.2	20.5	109.9	33.5	113.9	46.5	118.1	59.5	122.4		
8.0	106.3	21.0	110.0	34.0	114.0	47.0	118.4	60.0	122.5		
8.5	106.5	21.5	110.1	34.5	114.1	47.5	118.6	60.5	122.6		
9.0	106.6	22.0	110.4	35.0	114.3	48.0	118.7	61.0	122.7		
9.5	106.8	22.5	110.5	35.5	114.5	48.5	118.9	61.5	122.9		
10.0	106.9	23.0	110.7	36.0	114.6	49.0	119.0	62.0	123.1		
10.5	106.9	23.5	110.8	36.5	114.7	49.5	119.3	62.5	123.3		
11.0	107.2	24.0	110.9	37.0	115.0	50.0	119.4	63.0	123.4		
11.5	107.2	24.5	111.1	37.5	115.3	50.5	119.5	63.5	123.5		
12.0	107.4	25.0	111.3	38.0	115.3	51.0	119.8	64.0	123.7		
12.5	107.5	25.5	111.4	38.5	115.5	51.5	119.9	64.5	123.7		

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12. Description of Vehicles Covered by Certificate and Test Parameters

(4) Test Parameter

Durability Group VNSXGPGNNAAY

Test Group VNSXJ02.0JMF

Fuel Temperature Profile at the Running Loss Testing (for ARB) (for SENTRA and SENTRA SL/SR)

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	108.2	26.0	112.1	39.0	116.5	52.0	121.3	65.0	125.3
0.5	105.2	13.5	108.4	26.5	112.3	39.5	116.8	52.5	121.6	65.5	125.6
1.0	105.3	14.0	108.4	27.0	112.4	40.0	117.0	53.0	121.7	66.0	125.7
1.5	105.4	14.5	108.6	27.5	112.5	40.5	117.1	53.5	122.0	66.5	125.9
2.0	105.5	15.0	108.8	28.0	112.8	41.0	117.2	54.0	122.2	67.0	126.0
2.5	105.6	15.5	109.0	28.5	112.8	41.5	117.5	54.5	122.2	67.5	126.1
3.0	105.7	16.0	109.0	29.0	113.0	42.0	117.7	55.0	122.4	68.0	126.1
3.5	105.8	16.5	109.2	29.5	113.2	42.5	118.0	55.5	122.6	68.5	126.3
4.0	105.8	17.0	109.3	30.0	113.4	43.0	118.0	56.0	122.6	69.0	126.5
4.5	106.1	17.5	109.7	30.5	113.5	43.5	118.1	56.5	122.9	69.5	126.6
5.0	106.1	18.0	109.7	31.0	113.7	44.0	118.4	57.0	123.1	70.0	126.7
5.5	106.3	18.5	109.8	31.5	114.0	44.5	118.6	57.5	123.2	70.5	126.9
6.0	106.3	19.0	110.0	32.0	114.2	45.0	118.7	58.0	123.4	71.0	127.0
6.5	106.5	19.5	110.1	32.5	114.2	45.5	119.0	58.5	123.4	71.5	127.0
7.0	106.6	20.0	110.2	33.0	114.4	46.0	119.3	59.0	123.6	72.0	127.2
7.5	106.7	20.5	110.6	33.5	114.6	46.5	119.4	59.5	123.8		
8.0	107.0	21.0	110.7	34.0	114.8	47.0	119.5	60.0	124.0		
8.5	107.1	21.5	110.7	34.5	115.0	47.5	119.8	60.5	124.1		
9.0	107.1	22.0	110.9	35.0	115.1	48.0	119.9	61.0	124.1		
9.5	107.2	22.5	111.1	35.5	115.3	48.5	120.0	61.5	124.3		
10.0	107.4	23.0	111.2	36.0	115.3	49.0	120.2	62.0	124.4		
10.5	107.5	23.5	111.4	36.5	115.7	49.5	120.4	62.5	124.8		
11.0	107.6	24.0	111.6	37.0	115.8	50.0	120.7	63.0	124.9		
11.5	107.9	24.5	111.7	37.5	116.1	50.5	120.8	63.5	125.0		
12.0	107.9	25.0	111.9	38.0	116.2	51.0	121.0	64.0	125.1		
12.5	108.1	25.5	112.0	38.5	116.4	51.5	121.2	64.5	125.2		

VNSXJ02.0JMF

Issue date: Refer to cover page

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14. Request for Certification

Request for Certificate to ARB

Test Group	VNSXJ02.0JMF
Exhaust emission control system number	1 of 1
Evaporative/Refueling Families	VNSXR0099PKA (for KICKS FWD, KICKS AWD) VNSXR0099PJA (for SENTRA, SENTRA SL/SR)
Carline	KICKS AWD KICKS FWD SENTRA SL/SR SENTRA

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

Federal	X
California & 177 States	X

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



Takane Hayashi
Senior Manager
Regulation and Homologation Department

VNSXJ02.0JMF

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14. Request for Certification

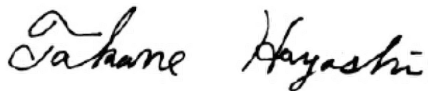
Request for Certificate to EPA

Test Group	VNSXJ02.0JMF
Exhaust emission control system number	1 of 1
Evaporative/Refueling Families	VNSXR0099PKA (for KICKS FWD, KICKS AWD) VNSXR0099PJA (for SENTRA, SENTRA SL/SR)
Carline	KICKS AWD KICKS FWD SENTRA SL/SR SENTRA

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

Federal	X
California & 177 States	X

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



Takane Hayashi
Senior Manager
Regulation and Homologation Department

VNSXJ02.0JMF

Issue date: Refer to cover page

Revision date:

SEC15(1)

15. Other Information

(1) Fee Filing Form

Refer to the attached Fee Filing Form.

VNSXJ02.0JMF

Issue date: Refer to cover page

Revision date:

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 12/17/2025

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 *

VNSXJ02.0JMF

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

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

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