

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Certificate Number	VNSXV03.0BXW-002	CARB Executive Order #	--
Certificate Issue Date	03/10/2026	Certificate Revision Date	--
Certificate Effective Date	03/10/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	02/06/2026 12:38:23 AM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition Direct fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VNSXGPGNNAAW	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	07/03/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VNSXT01.53CF
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	Update of the OBD information with the OBD approval letter(E-26-008). Deficiency: SAE J1979-2 Implementation Deficiency and PCV System Fresh Air Line Leak Monitoring Deficiency. Other OBD Demonstration Vehicle Test Group(s) : VNSXJ02.0FVM.		
Mfr Test Group Comments	Nissan conducted FTP, HWY, US06, and SC03 using LEV3 E10 gasoline and Cold using Cold E10 gasoline for Litmus. Litmus result(Value / Threshold) City:18.5/ 17.3 HWY: 25.1 / 23.4 Test No:RNSX10078315(FTP),RNSX10078316(HWY),RNSX10078317(US06),RNSX10078318(SC03),RNSX10078319(Cold).		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	12/17/2025 08:46:14 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	--				
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)	159	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				
VNSXR0159MCC-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	19 - Z NISMO	Federal	2-Wheel Drive, Rear	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	17 - Z	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	19 - Z NISMO	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Nissan Motor Co., Ltd.	1 - NISSAN	19 - Z NISMO	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	9	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	17 - Z	California + CAA Section 177 states	2-Wheel Drive, Rear	Manual	6	No
Nissan Motor Co., Ltd.	1 - NISSAN	19 - Z NISMO	Federal	2-Wheel Drive, Rear	Manual	6	No
Nissan Motor Co., Ltd.	1 - NISSAN	17 - Z	Federal	2-Wheel Drive, Rear	Manual	6	No
Nissan Motor Co., Ltd.	1 - NISSAN	17 - Z	Federal	2-Wheel Drive, Rear	Semi-Automatic	9	Yes

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC		
Engine Description					
Hybrid Type	--	Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--		
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20		
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N		
After Treatment Device(s) (ATD)					
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction	
1	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith	
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith	
3	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith	
4	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith	
Mfr After Treatment Device (ATD) Comments					
--					
Direct Ozone Reduction (DOR) Device					
Not Equipped					
Mfr Emission Control Device Comments					
--					

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Engine Configuration Number 1			
Engine Displacement (liters)	3.0	Engine Rated Horsepower	400
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Liquid
Air Aspiration Drive Method(s)	Hydraulic		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	EXH;ECM controlled, Oil pressure driven INT;ECM and VTC controller controlled, Electric driven		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Air fuel	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Air fuel	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	For Z		

Certification Summary Information Report

Test Group		VNSXV03.0BXW		Evaporative/Refueling Family		VNSXR0159MCC										
Engine Configuration Number 2																
Engine Displacement (liters)		3.0		Engine Rated Horsepower		420										
Number of Inlet Valves Per Cylinder		2		Number of Exhaust Valves Per Cylinder		2										
Air Aspiration Method		Turbocharged		Number of Air Aspiration Devices		2										
Air Aspiration Device Configuration		Parallel		Charge Air Cooler Type		Liquid										
Air Aspiration Drive Method(s)		Hydraulic														
Cylinder Deactivation		No														
Cylinder Deactivation Description		--														
Variable Valve Timing		Yes														
Variable Valve Timing System Description		EXH;ECM controlled, Oil pressure driven INT;ECM and VTC controller controlled, Electric driven														
Variable Valve Lift?		No														
Variable Valve Lift System Description		--														
Number of Knock Sensors		2		Number of Air/Fuel Sensors		4										
Air/Fuel Sensor # 1 Type		Heated oxygen		Air/Fuel Sensor # 1 Description		--										
Air/Fuel Sensor # 2 Type		Heated oxygen		Air/Fuel Sensor # 2 Description		--										
Air/Fuel Sensor # 3 Type		Air fuel		Air/Fuel Sensor # 3 Description		--										
Air/Fuel Sensor # 4 Type		Air fuel		Air/Fuel Sensor # 4 Description		--										
Mfr Air/Fuel Sensor Comments		--														
Exhaust Gas Recirculation		No		Cooled Exhaust Gas Recirculation		No										
EGR Type		--		Exhaust Gas Recirculation Description if 'Other'		--										
Closed Loop Air Injection System		No														
Air Injection Type		--		Air Injection Type if 'Other'		--										
Mfr Engine Configuration Comments		For Z NISMO														
Official Test Numbers																
Test Group		FTP		US06		SC03		Cold CO		Highway		EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
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		RNSX10078315		RNSX10078317		RNSX10078318		RNSX10078319		RNSX10078316		21.8	228.2	33	286.1	--
SFTP LEV-III Official Test Numbers																
Test Group Fuel		FTP		US06		SC03										
Gasoline		RNSX10078315		RNSX10078317		RNSX10078318										

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC						
Emission Data Vehicle Information									
Vehicle ID / Configuration	FGB745 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	PNSXV03.0PXA	Original Evaporative/Refueling Family	PNSXR0159MCC						
Original Test Vehicle Model Year	2023								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	Z SPORT						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	PNSXR0159MCC-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	3	Odometer Correction Factor	1.01						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AV30DAA4	Rated Horsepower	400						
Displacement (liters)	3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel						
Charge Air Cooler Type	Liquid	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3610	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4211	N/V Ratio	24.3						
Axle Ratio	3.13								
Transmission Type	Semi-Automatic	# of Transmission Gears	9						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
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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	45.99	0.1425	0.02039	30.68	-0.0984	0.02119	13.9
Cold CO	51.1	0.1583	0.02266	28.3	-0.0699	0.02313	N/A
US06	45.99	0.1425	0.02039	30.68	-0.0984	0.02119	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments Sport mode

Test #	PNSX10071521	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	PNSX10071520	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	07/30/2021	Fuel	Gasoline
Fuel Batch ID	WM0A08	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	4493	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)	0.2108217	--

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	0.2108	0	0.211	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2108	0	0.211	0.3	Pass

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	PNSX10071528	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	PNSX10071526	Test Fuel Type	47 - CARB LEV3 E10 Premium
Test Date	08/31/2021	Fuel	Gasoline
Fuel Batch ID	GH1321	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	4631	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)	0.2650462	--

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	0.265	0	0.265	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.265	0	0.265	0.3	Pass

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC						
Test #	PNSX10071527	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	PNSX10071526	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	08/31/2021	Fuel	Gasoline						
Fuel Batch ID	GH1321	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	4614	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"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value (miles per gallon)</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0004285</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)	0.0004285	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0004285	--							
Manufacturer Test Comments --									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	PNSX10071637	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	06/17/2021	Fuel	Gasoline
Fuel Batch ID	WA1A02	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)	0.0098	--

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	0.0098	0	0.01	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0098	0	0.01	0.02	Pass

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC					
Emission Data Vehicle Information								
Vehicle ID / Configuration	FGB745 / 1	Manufacturer Vehicle Configuration Number	1					
Original Test Group Name	PNSXV03.0PXA	Original Evaporative/Refueling Family	PNSXR0159MCC					
Original Test Vehicle Model Year	2023							
Vehicle Model								
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	Z SPORT					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	PNSXR0159MCC-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	3	Odometer Correction Factor	1.01					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	AV30DAA4	Rated Horsepower	400					
Displacement (liters)	3							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel					
Charge Air Cooler Type	Liquid	Drive Mode While Testing	2-Wheel Drive, Rear					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	3610	Equivalent Test Weight (pounds)	4000					
GVWR (lbs)	4211	N/V Ratio	24.3					
Axle Ratio	3.13							
Transmission Type	Semi-Automatic	# of Transmission Gears	9					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	45.99	0.1425	0.02039					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	30.68	-0.0984	0.02119					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	13.9							
Emission Control Device Comments	--							

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Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Manufacturer Test Vehicle Comments	Sport mode		
Test #	PNSX10071524	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	PNSX10071523	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	08/25/2021	Fuel	Gasoline
Fuel Batch ID	WG0-01	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	4578	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)	0.0210099	--

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	0.021	0.019	0.04	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.021	0.019	0.04	0.2	Pass

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC						
Emission Data Vehicle Information									
Vehicle ID / Configuration	FGBH76 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RNSXV03.0PXA	Original Evaporative/Refueling Family	RNSXR0159MCC						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	Z NISMO						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	RNSXR0159MCC-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	23	Odometer Correction Factor	0.991						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AV30DAA5	Rated Horsepower	420						
Displacement (liters)	3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel						
Charge Air Cooler Type	Liquid	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3725	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4211	N/V Ratio	24						
Axle Ratio	3.13								
Transmission Type	Semi-Automatic	# of Transmission Gears	9						
Transmission Lockup	Yes	Creep Gear	No						

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Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	RNSX10078315	Test Procedure	35 - California fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	12/02/2022	Fuel	Gasoline
Fuel Batch ID	470054	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	4175	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	376.80577	--
FE BAG 1 (Bag 1 Fuel Economy)	22.9	22.9
CO2 BAG 2 (Bag 2 Carbon Dioxide)	406.21723	--
FE BAG 2 (Bag 2 Fuel Economy)	21.3	21.3
CO2 BAG 3 (Bag 3 Carbon Dioxide)	338.9705	--
FE BAG 3 (Bag 3 Fuel Economy)	25.5	25.5
METHANE (CH4 - Methane)	0.0041725	--
CO (Carbon Monoxide)	0.1544756	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.78	--
DT-EER (Drive Trace Energy Economy Rating)	-0.56	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.95	--
MFR FE (Manufacturer Fuel Economy)	22.6	22.6
NOX (Nitrogen Oxide)	0.0129336	--
N2O (Nitrous Oxide)	0.0025204	--
HC-NM (Non-methane Hydrocarbon)	0.0086373	--
NMOG (Non-methane organic gases)	0.0095053	--
PM (Particulate Matter)	0.0010002	--
HC-TOTAL (Total Hydrocarbon)	0.0125509	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	382.2737731	999

Certification Summary Information Report

Test Group		VNSXV03.0BXW				Evaporative/Refueling Family				VNSXR0159MCC																				
<table><tr><td colspan="2">Test Result Name</td><td colspan="4">Unrounded Test Result</td><td colspan="3">Verify Calculated CO2</td></tr><tr><td colspan="2">Carbon dioxide</td><td colspan="4">381.6392243</td><td colspan="3">--</td></tr></table>													Test Result Name		Unrounded Test Result				Verify Calculated CO2			Carbon dioxide		381.6392243				--		
Test Result Name		Unrounded Test Result				Verify Calculated CO2																								
Carbon dioxide		381.6392243				--																								
Manufacturer Test Comments		--																												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail																		
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0.0042	--	--	--	0.001	--	0.005	0.030	Pass																		
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0025	--	--	--	0.0001	--	0.003	0.010	Pass																		
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.15	--	--	--	0.05	--	0.2	2.1	Pass																		
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.34	--	--	--	0	--	0.3	4.2	Pass																		
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0095	1	1.10049	--	0.0034	--	0.013	999.999	Pass																		
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0224	--	--	--	--	--	0.026	0.125	Pass																		
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0354	--	--	--	0	--	0.035	0.110	Pass																		
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0129	--	--	--	0	--	0.013	999.999	Pass																		
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.001	--	--	--	0	--	0.001	0.003	Pass																		
CA	150,000 miles	California LEV-IV ULEV125	CO	0.15	--	--	--	0.05	--	0.2	2.1	Pass																		
CA	150,000 miles	California LEV-IV ULEV125	METHANE	0.0042	--	--	--	0.0012	--	0.005	0.030	Pass																		
CA	150,000 miles	California LEV-IV ULEV125	N2O	0.0025	--	--	--	0.0001	--	0.003	0.010	Pass																		
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0095	1	1.10049	--	0.0034	--	0.013	999.999	Pass																		
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0224	--	--	--	--	--	0.026	0.125	Pass																		
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0129	--	--	--	0	--	0.013	999.999	Pass																		
CA	150,000 miles	California LEV-IV ULEV125	PM	0.001	--	--	--	0	--	0.001	0.003	Pass																		

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	RNSX10078319	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	12/09/2022	Fuel	Gasoline
Fuel Batch ID	HF2E10	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	4267	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	494.48407	--
FE BAG 1 (Bag 1 Fuel Economy)	17.3	17.3
CO2 BAG 2 (Bag 2 Carbon Dioxide)	444.05331	--
FE BAG 2 (Bag 2 Fuel Economy)	19.5	19.5
CO2 BAG 3 (Bag 3 Carbon Dioxide)	361.60724	--
FE BAG 3 (Bag 3 Fuel Economy)	23.9	23.9
CO (Carbon Monoxide)	0.6933811	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.04	--
DT-EER (Drive Trace Energy Economy Rating)	0.53	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.53	--
MFR FE (Manufacturer Fuel Economy)	20	20
HC-NM (Non-methane Hydrocarbon)	0.0879115	--
HC-TOTAL (Total Hydrocarbon)	0.1048045	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	431.8448516	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV03.0BXW				Evaporative/Refueling Family				VNSXR0159MCC		
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 125	CO	0.69	--	--	--	0.02	--	0.7	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.09	--	--	--	0	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV125	CO	0.69	--	--	--	0.02	--	0.7	10.0	Pass

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	RNSX10078316	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	12/02/2022	Fuel	Gasoline
Fuel Batch ID	470054	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	4186	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0079901	--
CO (Carbon Monoxide)	0.220259	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	8.14	--
DT-EER (Drive Trace Energy Economy Rating)	-0.24	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	10.03	--
MFR FE (Manufacturer Fuel Economy)	34.6	34.6
NOX (Nitrogen Oxide)	0.0133729	--
HC-NM (Non-methane Hydrocarbon)	0.0132449	--
NMOG (Non-methane organic gases)	0.0136422	--
HC-TOTAL (Total Hydrocarbon)	0.0207393	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	250.4082508	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	249.8236193	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV03.0BXW				Evaporative/Refueling Family				VNSXR0159MCC		
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 125	CREE	999	--	--	--	0.081123	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0136	1	1.03	--	0.0034	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.027	--	--	--	--	--	0.03	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0134	--	--	--	0	--	0.013	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0136	1	1.03	--	0.0034	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.027	--	--	--	--	--	0.03	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0134	--	--	--	0	--	0.013	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	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	RNSX10078317	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	12/02/2022	Fuel	Gasoline
Fuel Batch ID	470054	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	4210	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	517.09501	--
FE BAG 1 (Bag 1 Fuel Economy)	16.7	16.7
CO2 BAG 2 (Bag 2 Carbon Dioxide)	317.80766	--
FE BAG 2 (Bag 2 Fuel Economy)	27.1	27.1
CO (Carbon Monoxide)	0.7793105	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.87	--
DT-EER (Drive Trace Energy Economy Rating)	-0.42	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.76	--
MFR FE (Manufacturer Fuel Economy)	23.8	23.8
NOX (Nitrogen Oxide)	0.0427877	--
HC-NM (Non-methane Hydrocarbon)	0.0196935	--
NMOG (Non-methane organic gases)	0.0202843	--
PM (Particulate Matter)	0.0014804	--
HC-TOTAL (Total Hydrocarbon)	0.0243034	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	362.1739151	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV03.0BXW				Evaporative/Refueling Family				VNSXR0159MCC		
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 125	CO	0.7793	--	--	--	0.05	--	0.829	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0203	1	1.03	--	0.0034	--	0.024	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0428	--	--	--	0	--	0.043	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0015	--	--	--	0	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.78	--	--	--	0.05	--	0.8	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0203	1	1.03	--	0.0034	--	0.024	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0631	--	--	--	--	--	0.066	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0428	--	--	--	0	--	0.043	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0015	--	--	--	0	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	RNSX10078318	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	12/02/2022	Fuel	Gasoline
Fuel Batch ID	470054	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	4226	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)
CO (Carbon Monoxide)	0.0586335	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2	--
DT-EER (Drive Trace Energy Economy Rating)	-0.15	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.44	--
MFR FE (Manufacturer Fuel Economy)	19.5	19.5
NOX (Nitrogen Oxide)	0.0155724	--
HC-NM (Non-methane Hydrocarbon)	0.0019819	--
NMOG (Non-methane organic gases)	0.0020414	--
HC-TOTAL (Total Hydrocarbon)	0.0043434	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	444.2293738	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV03.0BXW				Evaporative/Refueling Family				VNSXR0159MCC		
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 125	CO	0.05863	--	--	--	0.05	--	0.1086	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.00204	1	1.03	--	0.0034	--	0.0054	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.01557	--	--	--	0	--	0.0156	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.06	--	--	--	0.05	--	0.1	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.002	1	1.03	--	0.0034	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0176	--	--	--	--	--	0.021	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0156	--	--	--	0	--	0.016	999.999	Pass

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Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	RNSX10078302	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	11/23/2022	Fuel	Gasoline
Fuel Batch ID	610314	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	4092	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0028082	--
CO (Carbon Monoxide)	0.1717068	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2	--
DT-EER (Drive Trace Energy Economy Rating)	0.36	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.9	--
MFR FE (Manufacturer Fuel Economy)	23	23
NOX (Nitrogen Oxide)	0.0119995	--
N2O (Nitrous Oxide)	0.0023418	--
HC-NM (Non-methane Hydrocarbon)	0.0086569	--
NMOG (Non-methane organic gases)	0.0089183	--
HC-TOTAL (Total Hydrocarbon)	0.011297	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	387.3029568	387

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	387.1320039	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV03.0BXW				Evaporative/Refueling Family				VNSXR0159MCC		
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 125	CREE	387	--	--	--	0.081123	--	387	--	--

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	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Test #	RNSX10078303	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	11/23/2022	Fuel	Gasoline
Fuel Batch ID	610314	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	4103	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0016924	--
CO (Carbon Monoxide)	0.0693978	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	10.44	--
DT-EER (Drive Trace Energy Economy Rating)	0.2	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	13.34	--
MFR FE (Manufacturer Fuel Economy)	35.2	35.2
NOX (Nitrogen Oxide)	0.0044622	--
HC-NM (Non-methane Hydrocarbon)	0.0026033	--
NMOG (Non-methane organic gases)	0.0026814	--
HC-TOTAL (Total Hydrocarbon)	0.0042345	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	253.1233085	253

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	253.3951174	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VNSXV03.0BXW				Evaporative/Refueling Family				VNSXR0159MCC		
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 125	CREE	253	--	--	--	0.081123	--	253	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0027	1	1.03	--	0.0034	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0072	--	--	--	--	--	0.011	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0045	--	--	--	0	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0027	1	1.03	--	0.0034	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0072	--	--	--	--	--	0.011	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0045	--	--	--	0	--	0.004	999.999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
Fuel Properties			
Fuel Batch ID	GH1321	Fuel Calibration Number	1
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	06/21/2021
Fuel Batch Calibration Effective Date	06/21/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.3	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18042
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	HF2E10	Fuel Calibration Number	1
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	11/09/2021
Fuel Batch Calibration Effective Date	11/09/2021	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	0.741
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17811
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	470054	Fuel Calibration Number	1
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	05/23/2022
Fuel Batch Calibration Effective Date	05/23/2022	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.748
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17952
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	610314	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	10/21/2022
Fuel Batch Calibration Effective Date	10/21/2022	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
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)	18436
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	WM0A08	Fuel Calibration Number	1
Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline	Fuel Batch Calibration Date	06/08/2021
Fuel Batch Calibration Effective Date	06/08/2021	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	0.74
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17847
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	WA1A02	Fuel Calibration Number	9999
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	01/24/2021
Fuel Batch Calibration Effective Date	01/24/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	--
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	WG0-01	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/23/2021
Fuel Batch Calibration Effective Date	08/23/2021	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	0.738
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17814
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VNSXV03.0BXW			Evaporative/Refueling Family		VNSXR0159MCC		
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 ULEV125		
Fuel		Gasoline			Test Procedure		US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.05	9.6
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0034	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 125		
Fuel		Gasoline			Test Procedure		California fuel 3-day exhaust		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	METHANE	--	--	--	--	--	--	0.001	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.05	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.10049	--	--	--	0.0034	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.110
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 125		
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	--	--	--	--	--	--	0.081123	999.999

Certification Summary Information Report

Test Group		VNSXV03.0BXW			Evaporative/Refueling Family			VNSXR0159MCC	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.05	2.1
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0034	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.05	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0034	999.999
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0

Certification Summary Information Report

Test Group		VNSXV03.0BXW			Evaporative/Refueling Family			VNSXR0159MCC	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0.02	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.081123	999.999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0034	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
Fuel		Gasoline			Test Procedure			California fuel 3-day exhaust	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.05	2.1
150,000 miles	METHANE	--	--	--	--	--	--	0.0012	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	NMOG	--	1	1.10049	--	--	--	0.0034	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		VNSXV03.0BXW			Evaporative/Refueling Family			VNSXR0159MCC	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.05	999.9999
150,000 miles	NMOG	--	1	1.03	--	--	--	0.0034	999.9999
150,000 miles	NOX	--	--	--	--	--	--	0	999.9999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
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	--	--	--	0.0034	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0	999.999

Evaporative/Refueling Standards

Evaporative/Refueling Family		VNSXR0159MCC		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	

Evaporative/Refueling Family		VNSXR0159MCC		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.020	0		

Certification Summary Information Report

Test Group		VNSXV03.0BXW		Evaporative/Refueling Family		VNSXR0159MCC	
Evaporative/Refueling Family		VNSXR0159MCC		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		
Evaporative/Refueling Family		VNSXR0159MCC		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VNSXR0159MCC		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	--	0.05	0		
Evaporative/Refueling Family		VNSXR0159MCC		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.019		
Evaporative/Refueling Family		VNSXR0159MCC		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.019		

Certification Summary Information Report

Test Group		VNSXV03.0BXW		Evaporative/Refueling Family		VNSXR0159MCC					
Evaporative/Refueling Family		VNSXR0159MCC		Cert Region		Federal					
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap					
Test Procedure		CA fuel 3-day evap.									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.300		0	
Evaporative/Refueling Family		VNSXR0159MCC		Cert Region		Federal					
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap					
Test Procedure		Evap Canister Bleed Test									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.020		0	
Evaporative/Refueling Family		VNSXR0159MCC		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	

Certification Summary Information Report

Test Group		VNSXV03.0BXW	Evaporative/Refueling Family	VNSXR0159MCC
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		VNSXV03.0BXW	Evaporative/Refueling Family		VNSXR0159MCC
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		VNSXV03.0BXW	Evaporative/Refueling Family		VNSXR0159MCC
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		VNSXV03.0BXW	Evaporative/Refueling Family		VNSXR0159MCC
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	