

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Certificate Number	TNSXT01.5E3K-023	CARB Executive Order #	--
Certificate Issue Date	04/09/2026	Certificate Revision Date	--
Certificate Effective Date	04/09/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	03/06/2026 03:36:54 AM
Model Year	2026		

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	LDT1, LDT2
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	TNSXGPGNNAAM	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	06/03/2026	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	TNSXJ02.0JMF
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	The OBD approval letter(E-26-046). Deficiency: Lack of MIL Illumination for Some Safety-related Components. Other OBD Demonstration Vehicle Test Group(s) : TNSXT03.8GRM.		
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: 24.6 / 23.8 HWY: 27.0 / 25.9 Test No: TNSX10093083(FTP), TNSX10093079(HWY), TNSX10093084(US06), TNSX10093082(SC03), TNSX10093085(Cold)		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	02/26/2025 03:44:59 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	128	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				
TNSXR0128PDA-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	101 - ROGUE FWD	California + CAA Section 177 states	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	8	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	101 - ROGUE FWD	Federal	2-Wheel Drive, Front	Selectable Continuously Variable (e.g. CVT with paddles)	8	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	3	Mechanically Variable Compression Ratio Indicator	Y				

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Test Group	TNSXT01.5E3K				Evaporative/Refueling Family	TNSXR0128PDA					
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal			Substrate Material		Substrate Construction				
1	Three-way catalyst	Platinum + Rhodium			Ceramic		Monolith				
2	Three-way catalyst	Palladium + Rhodium			Ceramic		Monolith				
Mfr After Treatment Device (ATD) Comments											
--											
Direct Ozone Reduction (DOR) Device											
Not Equipped											
Mfr Emission Control Device Comments											
--											
Engine Configuration Number 1											
Engine Displacement (liters)											
1.5											
Engine Rated Horsepower											
201											
Number of Inlet Valves Per Cylinder											
2											
Number of Exhaust Valves Per Cylinder											
2											
Air Aspiration Method											
Turbocharged											
Number of Air Aspiration Devices											
1											
Air Aspiration Device Configuration											
Single											
Charge Air Cooler Type											
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 controlled, Motor 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											
--											
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	TNSX10093083	TNSX10093084	TNSX10093084	TNSX10093082	TNSX10093085	TNSX10093079	24.6	23.9	27.1	26	--

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Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	TNSX10093083	TNSX10093084	TNSX10093082

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CTB527 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	MNSXT01.5A3A	Original Evaporative/Refueling Family	MNSXR0128PEA						
Original Test Vehicle Model Year	2021								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	ROGUE AWD SL/PLATINUM SL						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	MNSXR0128PEA-001						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.02						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	AR15DAC1	Rated Horsepower	201						
Displacement (liters)	1.5								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3707	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4685	N/V Ratio	24.6						
Axle Ratio	5.68								
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	1						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
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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	39.84	-0.4054	0.03085	16.07	-0.3332	0.02884	12.9
Cold CO	44.27	-0.4504	0.03428	18.28	-0.4274	0.03428	N/A
US06	39.84	-0.4054	0.03085	16.07	-0.3332	0.02884	N/A

Emission Control Device Comments --
Manufacturer Test Vehicle Comments Sport mode

Test #	MNSX10067315	Test Procedure	27 - California fuel 2-day evap
Exhaust Test # for this Evap Test	MNSX10067314	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	09/17/2020	Fuel	Gasoline
Fuel Batch ID	WE0A04	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	4476	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.245	--

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	0.245	0	0.245	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.245	0	0.245	0.3	Pass

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	MNSX10067326	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	MNSX10067324	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	10/09/2020	Fuel	Gasoline
Fuel Batch ID	WG0A06	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	4962	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.16	--

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	0.16	0	0.16	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.16	0	0.16	0.3	Pass

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	MNSX10067355	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline
Test Date	06/04/2020	Fuel	Gasoline
Fuel Batch ID	WH9-12	Fuel Calibration Number	9999
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	9999	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0057	--

Manufacturer Test Comments

Vehicle ID, Vehicle Configuration Number and Drive Cycle Speed Tolerance Criteria are EDV information. Test Start Odometer Reading is entered for a 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	0.0057	0	0.006	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.0057	0	0.006	0.02	Pass

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	Sport mode		
Test #	MNSX10067313	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	MNSX10067312	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/21/2020	Fuel	Gasoline
Fuel Batch ID	WL8-04	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4337	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.099	--

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	0.099	0.016	0.12	0.2	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.099	0.016	0.12	0.2	Pass

Certification Summary Information Report

Test Group		TNSXT01.5E3K			Evaporative/Refueling Family			TNSXR0128PDA
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	44.88	-0.2806	0.02955	19.31	-0.1426	0.02654	14	
Cold CO	49.87	-0.3118	0.03283	19.73	-0.2589	0.03027	N/A	
US06	44.88	-0.2806	0.02955	19.31	-0.1426	0.02654	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	Sport mode.							

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093076	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/14/2026	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5010	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)
CO (Carbon Monoxide)	0.1274207	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.42	--
DT-EER (Drive Trace Energy Economy Rating)	0.26	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.09	--
MFR FE (Manufacturer Fuel Economy)	30.6	30.6
NOX (Nitrogen Oxide)	0.0254871	--
HC-NM (Non-methane Hydrocarbon)	0.0177125	--
NMOG (Non-methane organic gases)	0.0194547	--
HC-TOTAL (Total Hydrocarbon)	0.0214969	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	284.0866126	--

Manufacturer Test Comments --

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Test Group		TNSXT01.5E3K				Evaporative/Refueling Family				TNSXR0128PDA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-IV ULEV50	CO	0.13	--	--	--	0	--	0.1	1.7	Pass
CA	4,000 miles	California LEV-IV ULEV50	NMOG	0.0195	1	1.09836	--	0	--	0.02	999.999	Pass
CA	4,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.045	--	--	--	--	--	0.045	0.100	Pass
CA	4,000 miles	California LEV-IV ULEV50	NOX	0.0255	--	--	--	0	--	0.026	999.999	Pass

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Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093083	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	12/16/2025	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4749	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		TNSXT01.5E3K			Evaporative/Refueling Family					TNSXR0128PDA		
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	272	--	--	--	0	--	272	--	--
Fed	120,000 miles	Federal Tier 3 Bin 50	METHANE	0.0035	--	--	--	0	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	N2O	0	--	--	--	0	--	0	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.04	--	--	--	0	--	0	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.06	--	--	--	0	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.004	1	1.09836	--	0	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0224	--	--	--	--	--	0.026	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0173	--	--	--	0	--	0.017	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0184	--	--	--	0.0031	--	0.022	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0006	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.04	--	--	--	0	--	0	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	METHANE	0.0035	--	--	--	0	--	0.004	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV50	N2O	0	--	--	--	0	--	0	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.004	1	1.09836	--	0	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0224	--	--	--	--	--	0.026	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0184	--	--	--	0.0031	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0006	--	--	--	0	--	0.001	0.001	Pass

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

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Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093085	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	01/09/2026	Fuel	Gasoline
Fuel Batch ID	280406	Fuel Calibration Number	2
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4962	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			

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Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	422.0410568	--
	CO BAG 1 (Bag 1 Carbon Monoxide)	3.0983671	--
	FE BAG 1 (Bag 1 Fuel Economy)	20.1	20.1
	CH4 BAG 1 (Bag 1 Methane)	0.0556429	--
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.5748111	--
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	337.869071	--
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.0153443	--
	FE BAG 2 (Bag 2 Fuel Economy)	25.5	25.5
	CH4 BAG 2 (Bag 2 Methane)	0	--
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0012092	--
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	308.7435677	--
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0328584	--
	FE BAG 3 (Bag 3 Fuel Economy)	27.9	27.9
	CH4 BAG 3 (Bag 3 Methane)	0.0029313	--
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0009927	--
	METHANE (CH4 - Methane)	0.0123306	--
	CO (Carbon Monoxide)	0.6587888	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.68	--
	DT-EER (Drive Trace Energy Economy Rating)	0.31	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.19	--
	MFR FE (Manufacturer Fuel Economy)	24.8	24.8
	HC-NM (Non-methane Hydrocarbon)	0.1089444	--
	NMOG (Non-methane organic gases)	0.1199696	--
	HC-TOTAL (Total Hydrocarbon)	0.1188972	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	347.3126273	--
Manufacturer Test Comments --			

Certification Summary Information Report

Test Group		TNSXT01.5E3K			Evaporative/Refueling Family					TNSXR0128PDA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	0.66	--	--	--	0	--	0.7	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.11	--	--	--	0	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV50	CO	0.66	--	--	--	0	--	0.7	10.0	Pass

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093079	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	12/16/2025	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4760	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)	0.0004203	--
CO (Carbon Monoxide)	0.0102278	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.65	--
DT-EER (Drive Trace Energy Economy Rating)	0.24	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.29	--
MFR FE (Manufacturer Fuel Economy)	38.7	38.7
NOX (Nitrogen Oxide)	0.0019599	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0003316	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	225.0166199	225

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	224.7668481	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TNSXT01.5E3K			Evaporative/Refueling Family					TNSXR0128PDA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	225	--	--	--	0	--	225	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0	1	1.03	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.002	--	--	--	--	--	0.005	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.002	--	--	--	0.0031	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0	1	1.03	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.002	--	--	--	--	--	0.005	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.002	--	--	--	0.0031	--	0.005	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	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093084	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	12/16/2025	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4782	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)	501.899496	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.29033	--
FE BAG 1 (Bag 1 Fuel Economy)	17.3	17.3
CH4 BAG 1 (Bag 1 Methane)	0.0032031	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0043496	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	301.9037461	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.1094296	--
FE BAG 2 (Bag 2 Fuel Economy)	28.8	28.8
CH4 BAG 2 (Bag 2 Methane)	0.0012362	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0027015	--
METHANE (CH4 - Methane)	0.0016719	--
CO (Carbon Monoxide)	0.1494993	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.51	--
DT-EER (Drive Trace Energy Economy Rating)	-0.34	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.82	--
MFR FE (Manufacturer Fuel Economy)	25.1	25.1
NOX (Nitrogen Oxide)	0.0050936	--
HC-NM (Non-methane Hydrocarbon)	0.0029773	--
NMOG (Non-methane organic gases)	0.0030666	--
PM (Particulate Matter)	0.0006804	--
HC-TOTAL (Total Hydrocarbon)	0.0046264	--

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	346.2031674	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.1495	--	--	--	0	--	0.15	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0031	1	1.03	--	0	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0051	--	--	--	0.0031	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0007	--	--	--	0	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.15	--	--	--	0	--	0.2	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0031	1	1.03	--	0	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0082	--	--	--	--	--	0.011	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0051	--	--	--	0.0031	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	PM	0.0007	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093082	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	12/17/2025	Fuel	Gasoline
Fuel Batch ID	480555	Fuel Calibration Number	2
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4798	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)	0.0022334	--
CO (Carbon Monoxide)	0.0166933	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.3	--
DT-EER (Drive Trace Energy Economy Rating)	-0.26	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.04	--
MFR FE (Manufacturer Fuel Economy)	27.2	27.2
NOX (Nitrogen Oxide)	0.0104906	--
HC-NM (Non-methane Hydrocarbon)	0.0004007	--
NMOG (Non-methane organic gases)	0.0004127	--
HC-TOTAL (Total Hydrocarbon)	0.0026038	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	319.8818042	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TNSXT01.5E3K				Evaporative/Refueling Family				TNSXR0128PDA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.0167	--	--	--	0	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0004	1	1.03	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0105	--	--	--	0.0031	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	CO	0.02	--	--	--	0	--	0	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0.0004	1	1.03	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0109	--	--	--	--	--	0.014	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0105	--	--	--	0.0031	--	0.014	999.999	Pass

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
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Emission Data Vehicle Information

Vehicle ID / Configuration	CTBQ82 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	TNSXT01.5E3K	Original Evaporative/Refueling Family	TNSXR0128PEA
Original Test Vehicle Model Year	2026		
Vehicle Model			
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	ROGUE AWD ROCK CREEK

Leak Family Details

Leak Family Identifier	001	Leak Family Name	TNSXR0128PEA-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	4	Odometer Correction Factor	0.98
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AR15DAC7	Rated Horsepower	201
Displacement (liters)	1.5		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Liquid	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3715	Equivalent Test Weight (pounds)	4000
GVWR (lbs)	4773	N/V Ratio	25
Axle Ratio	5.68		
Transmission Type	Selectable Continuously Variable (e.g. CVT with paddles)	# of Transmission Gears	8
Transmission Lockup	Yes	Creep Gear	No

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	44.88	-0.2806	0.02955	19.31	-0.1426	0.02654	14

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	NORMAL mode.		

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093077	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	01/16/2026	Fuel	Gasoline
Fuel Batch ID	610586	Fuel Calibration Number	1
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5058	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)	0.0061556	--
CO (Carbon Monoxide)	0.0546257	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.27	--
DT-EER (Drive Trace Energy Economy Rating)	-0.4	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.04	--
MFR FE (Manufacturer Fuel Economy)	36.8	36.8
NOX (Nitrogen Oxide)	0.012252	--
HC-NM (Non-methane Hydrocarbon)	0.0058765	--
NMOG (Non-methane organic gases)	0.006054	--
HC-TOTAL (Total Hydrocarbon)	0.0119512	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	242.1166159	242

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	242.414344	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	242	--	--	--	0	--	242	--	--

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	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Test #	TNSX10093078	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/12/2025	Fuel	Gasoline
Fuel Batch ID	610586	Fuel Calibration Number	1
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	560-2 Okatsukoku		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4718	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)	0.0008797	--
CO (Carbon Monoxide)	0.00383	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4	--
DT-EER (Drive Trace Energy Economy Rating)	-0.21	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.07	--
MFR FE (Manufacturer Fuel Economy)	46.8	46.8
NOX (Nitrogen Oxide)	0.0024152	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0008294	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	190.0025377	190

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	190.219456	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TNSXT01.5E3K				Evaporative/Refueling Family				TNSXR0128PDA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 50	CREE	190	--	--	--	0	--	190	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0	1	1.03	--	0	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0024	--	--	--	--	--	0.006	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0024	--	--	--	0.0031	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG	0	1	1.03	--	0	--	0	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV50	NMOG+NOX	0.0024	--	--	--	--	--	0.006	0.050	Pass
CA	150,000 miles	California LEV-IV ULEV50	NOX	0.0024	--	--	--	0.0031	--	0.006	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	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Fuel Properties			
Fuel Batch ID	WE0A04	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	07/16/2020
Fuel Batch Calibration Effective Date	07/16/2020	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17838
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	WG0A06	Fuel Calibration Number	1
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	10/08/2020
Fuel Batch Calibration Effective Date	10/08/2020	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17838
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	610586	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	09/15/2025
Fuel Batch Calibration Effective Date	09/15/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18454
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	280406	Fuel Calibration Number	2
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	12/16/2024
Fuel Batch Calibration Effective Date	12/16/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.728	Fuel Carbon Mass Fraction (E10)	0.825
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	480555	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/01/2025
Fuel Batch Calibration Effective Date	11/01/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.414	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	WL8-04	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/14/2019
Fuel Batch Calibration Effective Date	10/14/2019	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.739
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17815
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	WH9-12	Fuel Calibration Number	9999
Test Fuel Type	46 - CARB LEV3 E10 Regular Gasoline	Fuel Batch Calibration Date	08/19/2019
Fuel Batch Calibration Effective Date	08/19/2019	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	--
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	--

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
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Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	Standard Level	California LEV-IV ULEV50
Fuel	Gasoline	Test Procedure	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	Standard Level	Federal Tier 3 Bin 50
Fuel	Gasoline	Test Procedure	Federal fuel 3-day exhaust

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0	999.999
120,000 miles	METHANE	--	--	--	--	--	--	0	0.030
120,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	CO	--	--	--	--	--	--	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	NMOG	--	1	1.09836	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		TNSXT01.5E3K			Evaporative/Refueling Family			TNSXR0128PDA		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV50		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	1.7	
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
50,000 miles	CO	--	--	--	--	--	--	0	10.0	
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3	

Certification Summary Information Report

Test Group		TNSXT01.5E3K			Evaporative/Refueling Family			TNSXR0128PDA		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV50		
Fuel		Gasoline			Test Procedure			Federal fuel 3-day exhaust		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	1.7	
150,000 miles	METHANE	--	--	--	--	--	--	0	0.030	
150,000 miles	N2O	--	--	--	--	--	--	0	0.010	
150,000 miles	NMOG	--	1	1.09836	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.001	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999	
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.006	

Certification Summary Information Report

Test Group		TNSXT01.5E3K			Evaporative/Refueling Family			TNSXR0128PDA		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV50		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	9.6	
150,000 miles	NMOG	--	1	1.03	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.0031	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.006	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CREE	--	--	--	--	--	--	0	999.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT1 (LVW-3750, GVW 0-6000)			Standard Level			California LEV-IV ULEV50		
Fuel		Gasoline			Test Procedure			Fed. fuel 50 F exh.		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
4,000 miles	CO	--	--	--	--	--	--	0	1.7	
4,000 miles	NMOG	--	1	1.09836	--	--	--	0	999.999	
4,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.100	
4,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA						
Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert						
Vehicle Class	LDT1 (LVW-3750, GVW 0-6000)	Standard Level	California LEV-IV ULEV50						
Fuel	Gasoline	Test Procedure	Cold CO						
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family	TNSXR0128PDA	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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	TNSXR0128PDA	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	0.016

Evaporative/Refueling Family	TNSXR0128PDA	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	TNSXR0128PDA	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

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA		
Evaporative/Refueling Family	TNSXR0128PDA	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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	0.016
Evaporative/Refueling Family	TNSXR0128PDA	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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	TNSXR0128PDA	Cert Region	Federal Federal Tier 3 Evap		
Cert/In-Use Code	Cert	Standard Level			
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	TNSXR0128PDA	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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	TNSXR0128PDA	Cert Region	California + CAA Section 177 states California LEV-IV Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
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	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA		
Evaporative/Refueling Family	TNSXR0128PDA	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

Certification Summary Information Report

Test Group	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
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		TNSXT01.5E3K	Evaporative/Refueling Family		TNSXR0128PDA
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	TNSXT01.5E3K	Evaporative/Refueling Family	TNSXR0128PDA
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	TNSXT01.5E3K	Evaporative/Refueling Family		TNSXR0128PDA
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	