

APPLICATION FOR CERTIFICATION

2027 MODEL YEAR

Durability Group:	VGMXDPDNNE88
Test Group:	VGMXT03.0355
Durability Group Description:	Four Stroke, Compression Ignition Cycle, Diesel Fueled, Direct FI, Turbocharger, Ceramic Monolith Pt/Pd Catalyst, Diesel Particulate Filter, Selective Catalyst Reduction
Durability Vehicle:	Aged Components
OBD Group:	VGMXOBDG04B
Test Group Description:	3L L6
Applicable Standards:	Federal/California BIN70/ULEV70
Carlines Covered by Evaporative Family:	3L GMC SIERRA 2WD GMC SIERRA 4WD GMC SIERRA 4WD AT4X GMC SIERRA 4WD MUD TERRAIN TIRES Chevrolet SILVERADO 2WD Chevrolet SILVERADO 4WD Chevrolet SILVERADO 4WD MUD TERRAIN TIRES Chevrolet SILVERADO 4WD ZR2 Chevrolet SUBURBAN 2WD Chevrolet SUBURBAN 4WD Chevrolet TAHOE 2WD Chevrolet TAHOE 4WD GMC YUKON 2WD GMC YUKON 4WD GMC YUKON XL 2WD GMC YUKON XL 4WD --
Vehicles Tested:	30KLSVT496

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TEST VEHICLE DESCRIPTION

	<u>Durability Vehicle Selection</u>	<u>Emission-Data Vehicle Selection</u>
Test Group	NA – Aged Components	VGMXT03.0355
Evaporative Family		NA – Diesel
Displacement – Liters		3.0L
Engine Code		1
Emission Control System		
Exhaust		DFI/TC/CAC/HP-EGR/LP-EGR/ EGRC/OC/SCRC+DPF-SCRC/ SCRC+NH3OC/NOX(3)/RDQS/PMS
Evap		NA
Model		CK10906
Transmission Type/Code		A10/1 (MQC)
Shift Schedule		NA
(LVW/ALVW) Test Weight – Lbs		6500 LVW
GVWR		7700
Roadload HP		22.0
Final Drive		3.23
N/V Ratio – rpm/mph		21.6
Tires		275/60R20
Vehicle/EPA Config No./GM Config No.		
FTP & HWFE		30KLSVT496/00/007
US06		30KLSVT496/00/007
SC03		30KLSVT496/00/007
20° CO		30KLSVT496/00/007

NOTE: For complete vehicle information, see vehicle information submitted in EV_CIS database.

Data Vehicle Selection Justification – Heaviest test weight, highest roadload horsepower and highest N/V ratio available. This combination typically produces the worst case for exhaust emissions due to engine loads.

2027 EMISSION STANDARDS

LEV3 ULEV70 (LDT3/4>6000)

TEST GROUP NAME: VGMXT03.0355

EVAPORATIVE FAMILY NAME(S): N/A

CERTIFICATION & IN USE STANDARDS

	FTP TEST				HWY TEST
	NMOG+NO _x	CO	HCHO	PM	NMOG+NO _x
50K STD	NA	NA	NA	NA	NA
150K STD (Low)	0.070	1.7	0.004	0.001	0.070
150K STD (High)	0.105	1.7	0.004	0.001	0.105
<u>SFTP - LOW ALTITUDE:</u>					
			COMPOSITE ^{*1}	COMPOSITE ^{*1}	
	US06 PM		NMOG+NO _x	CO	
150K STD	0.006		0.080	4.2	

Note: Standards apply at Low and High Altitudes unless otherwise noted.

*1 For test groups that initially certified PM to 1 mg/mi in MY25 or earlier, then for the 2025 through 2028 model years, the interim in-use compliance standard for particulates 2 mg/mi. For test groups certifying PM to 1 mg/mi for the first time in MY26 or MY27 the interim in-use standard is 2 mg/mi for the initial year and one additional year.

86.1844(d)(7)-

2027 EMISSION STANDARDS

BIN70 (LDT3/LDT4)

TEST GROUP NAME: VGMXT03.0355

EVAPORATIVE FAMILY NAME(S): N/A

CERTIFICATION and IN-USE STANDARDS

LOW AND HIGH ALTITUDE:

	FTP TEST				
	Low Altitude NMOG+NOx	High Altitude NMOG+NOx	CO	HCHO	PM
120K STD	NA	NA	NA	NA	NA
150k STD	0.070	0.105	1.7	0.004	0.003

HWY TEST

	Low Altitude NMOG+NOx	High Altitude NMOG+NOx
150k STD	0.070	0.105

SFTP - LOW ALTITUDE:

	US06 PM	COMPOSITE ^{*1} NMOG+NOx	COMPOSITE ^{*1} CO
150K STD	0.006	0.080	4.2

*1 The calculation used for the composite results for NMOG+NOx, CO and PM = 35%FTP + 28%US06 + 37%SC03

86.1844(d)(7)-

Litmus Test

Test Group	Test Vehicle #	Config #	Vehicle Run # (s)	City				Highway				Minimum Required Calculation	Status
				5-Cycle Derived	5-Cycle Calc	Threshold	Result	5-Cycle Derived	5-Cycle Calc	Threshold	Result		
VGMXT03.0355	30KLSVT496	007	2,3,4,5,6	19.5853	19.2	18.8	Pass	24.1681	22.1	23	Fail	3 Cycle (City, Highway, US06)	OFFICIAL

Close

Certification Summary Information Report

Manufacturer	General Motors LLC	Manufacturer Code	GMX
Test Group	VGMXT03.0355	Evaporative/Refueling Family	--
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	06/24/2026 01:53:34 PM
Model Year	2027		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Diesel	Common Rail Direct Diesel Injection	--

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	LDT4
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	VGMXDPDNNE88	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VGMXT03.0355
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	MY27 LZ0 SUV and LPDU		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VGMXT03.0355		Evaporative/Refueling Family		--		
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
General Motors LLC	4 - GMC	946 - SIERRA 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	5 - SILVERADO 4WD ZR2	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	77 - TAHOE 4WD	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	946 - SIERRA 2WD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	4 - GMC	971 - SIERRA 4WD AT4X	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	24 - TAHOE 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	4 - GMC	34 - YUKON 2WD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	4 - GMC	55 - YUKON XL 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	4 - GMC	970 - SIERRA 4WD MUD TERRAIN TIRES	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	987 - SILVERADO 4WD	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	5 - SILVERADO 4WD ZR2	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	82 - SUBURBAN 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	24 - TAHOE 2WD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	6 - SILVERADO 4WD MUD TERRAIN TIRES	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	63 - YUKON XL 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	34 - YUKON 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	987 - SILVERADO 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	970 - SIERRA 4WD MUD TERRAIN TIRES	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	65 - YUKON 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	66 - SUBURBAN 2WD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	77 - TAHOE 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	66 - SUBURBAN 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	4 - GMC	971 - SIERRA 4WD AT4X	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes

Certification Summary Information Report

Test Group		VGMXT03.0355	Evaporative/Refueling Family		--		
General Motors LLC	3 - Chevrolet	986 - SILVERADO 2WD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	986 - SILVERADO 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	4 - GMC	55 - YUKON XL 2WD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
General Motors LLC	4 - GMC	65 - YUKON 4WD	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	947 - SIERRA 4WD	California + CAA Section 177 states	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	6 - SILVERADO 4WD MUD TERRAIN TIRES	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	63 - YUKON XL 4WD	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	3 - Chevrolet	82 - SUBURBAN 4WD	Federal	4-Wheel Drive	Automatic	10	Yes
General Motors LLC	4 - GMC	947 - SIERRA 4WD	Federal	4-Wheel Drive	Automatic	10	Yes

Engine Description

Hybrid Type

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Hybrid Description

--

Engine Type

4-Stroke Compression Ignition

Mfr Engine Description

--

Engine Block Arrangement

Inline

Mfr Engine Block Arrangement Description

--

Camless Valvetrain Indicator

No

Oil Viscosity/Classification

0W20

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	Diesel Particulate Filter	CU_ZEOLITE	Ceramic	Monolith
2	Selective Catalytic Reduction	CU_ZEOLITE	Ceramic	Monolith
3	Selective Catalytic Reduction	CU_ZEOLITE	Ceramic	Monolith
4	Oxidation catalyst	Platinum + Palladium	Ceramic	Monolith
5	Oxidation catalyst	Platinum	Ceramic	Monolith

Mfr After Treatment Device (ATD)

Comments

--

Direct Ozone Reduction (DOR) Device

Not Equipped

Mfr Emission Control Device Comments

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Certification Summary Information Report

Test Group		VGMXT03.0355				Evaporative/Refueling Family		--													
Engine Configuration Number 1																					
Engine Displacement (liters)		3.0				Engine Rated Horsepower		305													
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		No																			
Variable Valve Timing System Description		--																			
Variable Valve Lift?		No																			
Variable Valve Lift System Description		--																			
Number of Knock Sensors		0				Number of Air/Fuel Sensors		3													
Air/Fuel Sensor # 1 Type		Nitrogen oxide				Air/Fuel Sensor # 1 Description		--													
Air/Fuel Sensor # 2 Type		Nitrogen oxide				Air/Fuel Sensor # 2 Description		--													
Air/Fuel Sensor # 3 Type		Nitrogen oxide				Air/Fuel Sensor # 3 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		--																			
Air Injection Type		Not Applicable				Air Injection Type if 'Other'		--													
Mfr Engine Configuration Comments		--																			
Official Test Numbers																					
Test Group								EPA City	EPA City	EPA	EPA	CREE									
Fuel		FTP		US06		Cold CO		Litmus Value		Litmus Threshold		Weighting Factor									
Diesel		SGMX10087923		SGMX10087925		SGMX10087926		SGMX10087927		SGMX10087924		19.2		18.8		22.1		23.0		--	

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	30KLSVT496 / 0	Manufacturer Vehicle Configuration Number	1						
Original Test Group Name	SGMXT03.0353	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	CHEVROLET	Represented Test Vehicle Model	SUBURBAN 4WD						
Leak Family Details									
Leak Family Identifier	LK1	Leak Family Name	--						
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>Diesel</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Diesel		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Diesel							
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						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	1	Rated Horsepower	305						
Displacement (liters)	3								
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	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	6271	Equivalent Test Weight (pounds)	6500						
GVWR (lbs)	7700	N/V Ratio	21.6						
Axle Ratio	3.23								
Transmission Type	Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VGMXT03.0355			Evaporative/Refueling Family		--	
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	45.16	0.7546	0.0327	-16.51	0.6234	0.02891	22	
Cold CO	49.68	0.8301	0.03597	-33.29	0.4359	0.02778	N/A	
US06	45.16	0.7546	0.0327	-16.51	0.6234	0.02891	N/A	
Emission Control Device Comments		T1 SUV LZ0						
Manufacturer Test Vehicle Comments		T1 SUV 150K EDV, TOW HAUL MODE, TEST IN 2WD MODE ON 4WD DYNO, RECOMMENDED TIRE PRESSURE 35 SET TO 32 FOR TRACTION DURING TESTING, 250LB BALLAST ADDED TO VEHICLE						

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--
Test #	SGMX10087923	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	08/30/2024	Fuel	Diesel
Fuel Batch ID	000400	Fuel Calibration Number	9398
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Aged components installed In the emission data vehicle
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4094	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U
State of Charge Delta	No		
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)	458.648	--
FE BAG 1 (Bag 1 Fuel Economy)	22.1	22.1
CO2 BAG 2 (Bag 2 Carbon Dioxide)	397.444	--
FE BAG 2 (Bag 2 Fuel Economy)	25.6	25.6
CO2 BAG 3 (Bag 3 Carbon Dioxide)	404.604	--
FE BAG 3 (Bag 3 Fuel Economy)	25.1	25.1
METHANE (CH4 - Methane)	0.00803	--
CO (Carbon Monoxide)	0.066189	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.391957	--
DT-EER (Drive Trace Energy Economy Rating)	-0.31875	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.837509	--
MFR FE (Manufacturer Fuel Economy)	24.7	24.7
NOX (Nitrogen Oxide)	0.028193	--
N2O (Nitrous Oxide)	0.049165	--
HC-NM (Non-methane Hydrocarbon)	0.026095	--
NMOG (Non-methane organic gases)	0.026095	--
PM (Particulate Matter)	0.00007	--
HC-TOTAL (Total Hydrocarbon)	0.03364	--

Certification Summary Information Report

Test Group				VGMXT03.0355				Evaporative/Refueling Family				--	
				Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE					
				Carbon-Related Exhaust Emissions		412		412					
				Test Result Name		Unrounded Test Result		Verify Calculated CO2					
				Carbon dioxide		412.099		--					
Manufacturer Test Comments				150K EMIS TEST									
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 70	CREE	412	1	--	0 UP	0	--	412	--	--	
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.07	1	--	0.00 UP	--	--	0.1	1.7	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.16	1	--	0 UP	--	--	0.2	4.2	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0261	1	--	0.0005 UP	--	--	0.027	99.999	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0543	1	--	0 UP	--	--	0.061	0.070	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0501	1	--	0 UP	--	--	0.050	0.080	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0282	1	--	0.0065 UP	--	--	0.035	99.999	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0001	1	--	0.0003 UP	--	--	0.000	0.003	Pass	
CA	150,000 miles	California LEV-III ULEV70	CO	0.07	1	--	0.00 UP	--	--	0.1	1.7	Pass	
CA	150,000 miles	California LEV-III ULEV70	CO-COMP	0.16	1	--	0 UP	--	--	0.2	4.2	Pass	
CA	150,000 miles	California LEV-III ULEV70	NMOG	0.0261	1	--	0.0005 UP	--	--	0.027	99.999	Pass	
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX	0.0543	1	--	0 UP	--	--	0.061	0.070	Pass	
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX-COMP	0.0501	1	--	0 UP	--	--	0.050	0.080	Pass	
CA	150,000 miles	California LEV-III ULEV70	NOX	0.0282	1	--	0.0065 UP	--	--	0.035	99.999	Pass	
CA	150,000 miles	California LEV-III ULEV70	PM	0.0001	1	--	0.0003 UP	--	--	0.000	0.001	Pass	

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

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--
Test #	SGMX10087927	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	09/06/2024	Fuel	N/A
Fuel Batch ID	000400	Fuel Calibration Number	9398
Vehicle Class	N/A	DF Type	Aged components installed In the emission data vehicle
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4179	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U
State of Charge Delta	No		
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)	553.596	--	
FE BAG 1 (Bag 1 Fuel Economy)	18.3	18.3	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	442.679	--	
FE BAG 2 (Bag 2 Fuel Economy)	23	23	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	422.857	--	
FE BAG 3 (Bag 3 Fuel Economy)	24	24	
METHANE (CH4 - Methane)	0.007194	--	
CO (Carbon Monoxide)	0.345815	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.807119	--	
DT-EER (Drive Trace Energy Economy Rating)	0.373331	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.973691	--	
MFR FE (Manufacturer Fuel Economy)	22.1	22.1	
NOX (Nitrogen Oxide)	0.109304	--	
HC-NM (Non-methane Hydrocarbon)	0.080159	--	
NMOG (Non-methane organic gases)	0.080159	--	
HC-TOTAL (Total Hydrocarbon)	0.086986	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	460.248	--	
Manufacturer Test Comments	150K COLD TEST		

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--																																				
Test #	SGMX10087924	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur																																				
Test Date	08/30/2024	Fuel	Diesel																																				
Fuel Batch ID	000400	Fuel Calibration Number	9398																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Aged components installed In the emission data vehicle																																				
Verify Test Lab ID	Compliance and Certification																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	4105	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U																																				
State of Charge Delta	No																																						
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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Carbon dioxide	299.81	--																																					
Manufacturer Test Comments	150K HWFE TEST																																						

Certification Summary Information Report

Test Group		VGMXT03.0355				Evaporative/Refueling Family				--		
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 70	CREE	300	1	--	0 UP	0	--	300	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0082	1	--	0.0005 UP	--	--	0.009	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0228	1	--	0 UP	--	--	0.030	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0146	1	--	0.0065 UP	--	--	0.021	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG	0.0082	1	--	0.0005 UP	--	--	0.009	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX	0.0228	1	--	0 UP	--	--	0.030	0.070	Pass
CA	150,000 miles	California LEV-III ULEV70	NOX	0.0146	1	--	0.0065 UP	--	--	0.021	99.999	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	VGMXT03.0355	Evaporative/Refueling Family	--
Test #	SGMX10087925	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	08/30/2024	Fuel	Diesel
Fuel Batch ID	000400	Fuel Calibration Number	9398
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Aged components installed In the emission data vehicle
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4127	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U
State of Charge Delta	No		
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)	734.389	--	
FE BAG 1 (Bag 1 Fuel Economy)	13.9	13.9	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	432.654	--	
FE BAG 2 (Bag 2 Fuel Economy)	23.5	23.5	
METHANE (CH4 - Methane)	0.002387	--	
CO (Carbon Monoxide)	0.407813	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.229512	--	
DT-EER (Drive Trace Energy Economy Rating)	0.117208	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.399109	--	
MFR FE (Manufacturer Fuel Economy)	20.3	20.3	
NOX (Nitrogen Oxide)	0.036486	--	
HC-NM (Non-methane Hydrocarbon)	0.014708	--	
NMOG (Non-methane organic gases)	0.014708	--	
PM (Particulate Matter)	0.000298	--	
HC-TOTAL (Total Hydrocarbon)	0.016923	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	500.682	--	
Manufacturer Test Comments	150K US06 TEST		

Certification Summary Information Report

Test Group		VGMXT03.0355				Evaporative/Refueling Family				--		
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 70	CO	0.41	1	--	0.00 UP	--	--	0.4	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0147	1	--	0.0005 UP	--	--	0.015	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0512	1	--	0 UP	--	--	0.058	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0365	1	--	0.0065 UP	--	--	0.043	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0003	1	--	0.0003 UP	--	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III ULEV70	CO	0.41	1	--	0.00 UP	--	--	0.4	99.9	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG	0.0147	1	--	0.0005 UP	--	--	0.015	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX	0.0512	1	--	0 UP	--	--	0.058	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NOX	0.0365	1	--	0.0065 UP	--	--	0.043	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	PM	0.0003	1	--	0.0003 UP	--	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--																																	
Test #	SGMX10087926	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur																																	
Test Date	09/02/2024	Fuel	Diesel																																	
Fuel Batch ID	000400	Fuel Calibration Number	9398																																	
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Aged components installed In the emission data vehicle																																	
Verify Test Lab ID	Compliance and Certification																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	4143	Odometer Units	M																																	
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U																																	
State of Charge Delta	No																																			
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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HC-TOTAL (Total Hydrocarbon)	0.050698	--																																		
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
Carbon dioxide	559.139	--																																		
Manufacturer Test Comments	150K SC03 TEST																																			

Certification Summary Information Report

Test Group		VGMXT03.0355				Evaporative/Refueling Family				--		
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 70	CO	0.06	1	--	0.00 UP	--	--	0.1	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0437	1	--	0.0005 UP	--	--	0.044	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0452	1	--	0 UP	--	--	0.052	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0015	1	--	0.0065 UP	--	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	CO	0.06	1	--	0.00 UP	--	--	0.1	99.9	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG	0.0437	1	--	0.0005 UP	--	--	0.044	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX	0.0452	1	--	0 UP	--	--	0.052	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NOX	0.0015	1	--	0.0065 UP	--	--	0.008	99.999	Pass

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--
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Emission Data Vehicle Information

Vehicle ID / Configuration	30KLSVT496 / 1	Manufacturer Vehicle Configuration Number	2
Original Test Group Name	SGMXT03.0353	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	CHEVROLET	Represented Test Vehicle Model	SUBURBAN 4WD
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Leak Family Details

Leak Family Identifier	LK1	Leak Family Name	--
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Drive Sources and Fuel System Details

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

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
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	1	Rated Horsepower	305
Displacement (liters)	3		
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	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	6271	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7700	N/V Ratio	21.6
Axle Ratio	3.23		
Transmission Type	Automatic	# of Transmission Gears	10
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	45.16	0.7546	0.0327	-16.51	0.6234	0.02891	22
US06	45.16	0.7546	0.0327	-16.51	0.6234	0.02891	N/A

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--
Emission Control Device Comments	T1 SUV LZ0		
Manufacturer Test Vehicle Comments	T1 SUV 150K EDV, NORMAL MODE, TEST IN 2WD MODE ON 4WD DYNO, RECOMMENDED TIRE PRESSURE 35 SET TO 32 FOR TRACTION DURING TESTING, 250LB BALLAST ADDED TO VEHICLE		

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--
Test #	SGMX10087928	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	09/11/2024	Fuel	Diesel
Fuel Batch ID	000400	Fuel Calibration Number	9398
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Aged components installed In the emission data vehicle
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4229	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U
State of Charge Delta	No		
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)	472.423	--
FE BAG 1 (Bag 1 Fuel Economy)	21.5	21.5
CO2 BAG 2 (Bag 2 Carbon Dioxide)	400.668	--
FE BAG 2 (Bag 2 Fuel Economy)	25.4	25.4
CO2 BAG 3 (Bag 3 Carbon Dioxide)	406.009	--
FE BAG 3 (Bag 3 Fuel Economy)	25.1	25.1
METHANE (CH4 - Methane)	0.007052	--
CO (Carbon Monoxide)	0.077866	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.770443	--
DT-EER (Drive Trace Energy Economy Rating)	0.094911	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.25856	--
MFR FE (Manufacturer Fuel Economy)	24.4	24.4
NOX (Nitrogen Oxide)	0.027927	--
N2O (Nitrous Oxide)	0.048982	--
HC-NM (Non-methane Hydrocarbon)	0.013883	--
NMOG (Non-methane organic gases)	0.013883	--
PM (Particulate Matter)	0.000089	--
HC-TOTAL (Total Hydrocarbon)	0.020577	--

Certification Summary Information Report

Test Group		VGMXT03.0355		Evaporative/Refueling Family		--						
		Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE								
		Carbon-Related Exhaust Emissions	417	417								
		Test Result Name	Unrounded Test Result	Verify Calculated CO2								
		Carbon dioxide	416.988	--								
Manufacturer Test Comments		150K EMIS TEST FOR FE										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 70	CREE	417	1	--	0 UP	0	--	417	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	CO	0.08	1	--	0.00 UP	--	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0139	1	--	0.0005 UP	--	--	0.014	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0418	1	--	0 UP	--	--	0.049	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0279	1	--	0.0065 UP	--	--	0.034	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0001	1	--	0.0003 UP	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III ULEV70	CO	0.08	1	--	0.00 UP	--	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG	0.0139	1	--	0.0005 UP	--	--	0.014	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX	0.0418	1	--	0 UP	--	--	0.049	0.070	Pass
CA	150,000 miles	California LEV-III ULEV70	NOX	0.0279	1	--	0.0065 UP	--	--	0.034	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	PM	0.0001	1	--	0.0003 UP	--	--	0.000	0.001	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VGMXT03.0355	Evaporative/Refueling Family	--																																				
Test #	SGMX10087929	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur																																				
Test Date	09/11/2024	Fuel	Diesel																																				
Fuel Batch ID	000400	Fuel Calibration Number	9398																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Aged components installed In the emission data vehicle																																				
Verify Test Lab ID	Compliance and Certification																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	4240	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U																																				
State of Charge Delta	No																																						
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 Result Name	Unrounded Test Result	Verify Calculated CO2																																					
Carbon dioxide	301.513	--																																					
Manufacturer Test Comments	150K HWFE TEST FOR FE																																						

Certification Summary Information Report

Test Group		VGMXT03.0355			Evaporative/Refueling Family					--		
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 70	CREE	302	1	--	0 UP	0	--	302	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0048	1	--	0.0005 UP	--	--	0.005	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0187	1	--	0 UP	--	--	0.026	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0139	1	--	0.0065 UP	--	--	0.020	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG	0.0048	1	--	0.0005 UP	--	--	0.005	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX	0.0187	1	--	0 UP	--	--	0.026	0.070	Pass
CA	150,000 miles	California LEV-III ULEV70	NOX	0.0139	1	--	0.0065 UP	--	--	0.020	99.999	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	VGMXT03.0355	Evaporative/Refueling Family	--
Test #	SGMX10087930	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	09/11/2024	Fuel	Diesel
Fuel Batch ID	000400	Fuel Calibration Number	9398
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Aged components installed In the emission data vehicle
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4262	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	U
State of Charge Delta	No		
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)	725.694	--
FE BAG 1 (Bag 1 Fuel Economy)	14	14
CO2 BAG 2 (Bag 2 Carbon Dioxide)	432.506	--
FE BAG 2 (Bag 2 Fuel Economy)	23.4	23.4
METHANE (CH4 - Methane)	0.0022	--
CO (Carbon Monoxide)	0.640773	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.45153	--
DT-EER (Drive Trace Energy Economy Rating)	-0.703605	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.72708	--
MFR FE (Manufacturer Fuel Economy)	20.4	20.4
NOX (Nitrogen Oxide)	0.042685	--
HC-NM (Non-methane Hydrocarbon)	0.008429	--
NMOG (Non-methane organic gases)	0.008429	--
PM (Particulate Matter)	0.000284	--
HC-TOTAL (Total Hydrocarbon)	0.010499	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	498.109	--

Manufacturer Test Comments

150K US06 TEST FOR FE

Certification Summary Information Report

Test Group		VGMXT03.0355				Evaporative/Refueling Family				--		
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 70	CO	0.64	1	--	0.00 UP	--	--	0.6	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0084	1	--	0.0005 UP	--	--	0.009	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0511	1	--	0 UP	--	--	0.058	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.0427	1	--	0.0065 UP	--	--	0.049	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0003	1	--	0.0003 UP	--	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III ULEV70	CO	0.64	1	--	0.00 UP	--	--	0.6	99.9	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG	0.0084	1	--	0.0005 UP	--	--	0.009	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NMOG+NOX	0.0511	1	--	0 UP	--	--	0.058	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	NOX	0.0427	1	--	0.0065 UP	--	--	0.049	99.999	Pass
CA	150,000 miles	California LEV-III ULEV70	PM	0.0003	1	--	0.0003 UP	--	--	0.001	0.006	Pass

Fuel Properties												
Fuel Batch ID			000400				Fuel Calibration Number			9398		
Test Fuel Type			19 - Federal Cert Diesel 7-15 PPM Sulfur				Fuel Batch Calibration Date			05/07/2024		
Fuel Batch Calibration Effective Date			05/07/2024				Fuel Batch Calibration Ineffective Date			--		
Carbon Weight Fraction NMHC			--				Carbon Weight Fraction HC			--		
Exhaust Carbon Weight Fraction			--				Fuel Methanol Volume Fraction			--		
Fuel Density (grams/cubic ft)			--				Fuel Specific Gravity			0.851		
Fuel Ethanol Volume Percent (%)			--				Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)			18423		
Fuel Net Heat of Combustion (E10) (MJ/kg)			--				Fuel Carbon Mass Fraction (E10)			--		
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)			0.869				Weight Fraction CO2			--		

Certification Summary Information Report

Test Group		VGMXT03.0355			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Diesel			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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0005	-0.0215	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles	NOX	--	1	--	0.0065	-0.2739	--	--	99.999
150,000 miles	PM	--	1	--	0.0003	-0.0129	--	--	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV70	
Fuel		Diesel			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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0005	-0.0215	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles	NOX	--	1	--	0.0065	-0.2739	--	--	99.999

Certification Summary Information Report

Test Group		VGMXT03.0355			Evaporative/Refueling Family			--	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Diesel			Test Procedure			CVS 75 and later (w/o 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	--	1	--	0	0	--	0	999.999
150,000 miles	CO	--	1	--	0.00	0.00	--	--	1.7
150,000 miles	CO-COMP	--	1	--	0	0	--	--	4.2
150,000 miles	NMOG	--	1	--	0.0005	-0.0215	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.070
150,000 miles	NMOG+NOX-COMP	--	1	--	0	0	--	--	0.080
150,000 miles	NOX	--	1	--	0.0065	-0.2739	--	--	99.999
150,000 miles	PM	--	1	--	0.0003	-0.0129	--	--	0.003

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 70	
Fuel		Diesel			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	--	1	--	0	0	--	0	999.999
150,000 miles	NMOG	--	1	--	0.0005	-0.0215	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.070
150,000 miles	NOX	--	1	--	0.0065	-0.2739	--	--	99.999

Certification Summary Information Report

Test Group		VGMXT03.0355			Evaporative/Refueling Family			--	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV70	
Fuel		Diesel			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	1	--	0.00	0.00	--	--	1.7
150,000 miles	CO-COMP	--	1	--	0	0	--	--	4.2
150,000 miles	NMOG	--	1	--	0.0005	-0.0215	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.070
150,000 miles	NMOG+NOX-COMP	--	1	--	0	0	--	--	0.080
150,000 miles	NOX	--	1	--	0.0065	-0.2739	--	--	99.999
150,000 miles	PM	--	1	--	0.0003	-0.0129	--	--	0.001
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV70	
Fuel		Diesel			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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles	NMOG	--	1	--	0.0005	-0.0215	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles	NOX	--	1	--	0.0065	-0.2739	--	--	99.999
150,000 miles	PM	--	1	--	0.0003	-0.0129	--	--	0.006
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV70	
Fuel		Diesel			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	--	0.0005	-0.0215	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	0	0	1	--	0.070
150,000 miles	NOX	--	1	--	0.0065	-0.2739	--	--	99.999

Certification Summary Information Report

Test Group		VGMXT03.0355			Evaporative/Refueling Family		--			
Cert Region		Federal			Cert/In-Use Code		Cert			
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 3 Bin 70			
Fuel		Diesel			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	--	1	--	0.00	0.00	--	--	99.9
150,000 miles		NMOG	--	1	--	0.0005	-0.0215	--	--	99.999
150,000 miles		NMOG+NOX	--	1	--	0	0	1	--	99.999
150,000 miles		NOX	--	1	--	0.0065	-0.2739	--	--	99.999

Certification Summary Information Report

Test Group		VGMXT03.0355	Evaporative/Refueling Family		--
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		VGMXT03.0355	Evaporative/Refueling Family		--
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		VGMXT03.0355	Evaporative/Refueling Family		--
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		VGMXT03.0355	Evaporative/Refueling Family		--
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	

FLEXIBLE OR ALTERNATE FUELS

There are no flexible or alternate fuels certified for this test group.

Engine Code Information

Base Engine Code	1
EC Derivatives	
Test Group	VGMXT03.0355
Durability Group	VGMXDPDNNE88
Engine RPO	LZ0
Disp, liters	3.0
Trans RPO	MQC
Trans Type	A10
Product Code	--
Emission RPO	NL3
Emissions Category	ULEV70/BIN70
Vehicle Type	TRUCK
Regulatory Agencies	C
Sales Area	FA/CA
Design Altitude	Both
A/C Equipped	Yes
Driver Select Device	Tour/Start Stop/Powertrain Sport/AWD Disconnect/Tow Haul/Off Road/Snow
Police Only	No
Horsepower @ RPM	305@3750
Torque @ RPM	495@2750
Emission Ctrl Sys	DFI/TC/CAC/HP-EGR/LP-EGR/EGRC/OC/SCRC+DPF-SCRC/SCRC+NH3OC/NOXS(3)/RDQS/PMS
TapUp/TapDown	No
Active Fuel Management	Non AFM
Description	T1 SUV LZ0

Engine Code Information

Base Engine Code	2
EC Derivatives	
Test Group	VGMXT03.0355
Durability Group	VGMXDPDNNE88
Engine RPO	LZ0
Disp, liters	3.0
Trans RPO	MQC
Trans Type	A10
Product Code	--
Emission RPO	NL3
Emissions Category	ULEV70/BIN70
Vehicle Type	TRUCK
Regulatory Agencies	C
Sales Area	FA/CA
Design Altitude	Both
A/C Equipped	Yes
Driver Select Device	Tour/Start Stop/AWD Disconnect/Tow Haul/Off Road/Baja/Snow
Police Only	No
Horsepower @ RPM	305@3750
Torque @ RPM	495@2750
Emission Ctrl Sys	DFI/TC/CAC/HP-EGR/LP-EGR/EGRC/OC/SCRC+DPF-SCRC/SCRC+NH3OC/NOXS(3)/RDQS/PMS
TapUp/TapDown	No
Active Fuel Management	Non AFM
Description	T1 LDPU LZ0

Vehicle Parameters - Certificate Coverage

Durability Group VGMXDPDNNE88
TestGroup VGMXT03.0355

EC	EC Der	Eng RPO	Disp	Evap Family	Evap Code	Model	Car Line	Trans Type/Code	Final Drive Ratio	GVWR	Tire	N/V	Loaded Weight Veh/DA	TWC Meth	TWC	TLHP	F0	F1	F2	RLHP RPO	Drv Sys	Note
1		LZO	3.0	--	--	CC10706	TAHOE 2WD	A10/2	3.23	7600	265/65R18 AL2 MIC	22.7	6167/3054	LVW	6000	18.0	31.90	0.6104	0.02894	&WNS	RD	--
1		LZO	3.0	--	--	CC10706	TAHOE 2WD	A10/2	3.23	7600	275/50R22 AL2 BRI	21.8	6167/3054	LVW	6000	19.0	36.46	0.6073	0.03019	&WNS	RD	--
1		LZO	3.0	--	--	CC10706	TAHOE 2WD	A10/2	3.23	7600	275/60R20 AL2 CON	21.7	6167/3054	LVW	6000	18.9	36.13	0.6167	0.02996	&WNS	RD	--
1		LZO	3.0	--	--	CC10906	SUBURBAN 2WD	A10/2	3.23	7700	265/65R18 AL2 MIC	22.7	6377/3107	LVW	6500	18.7	34.30	0.6203	0.03007	&WNS	RD	--
1		LZO	3.0	--	--	CC10906	SUBURBAN 2WD	A10/2	3.23	7700	275/50R22 AL2 BRI	21.8	6377/3107	LVW	6500	19.8	39.45	0.6176	0.03128	&WNS	RD	--
1		LZO	3.0	--	--	CC10906	SUBURBAN 2WD	A10/2	3.23	7700	275/60R20 AL2 CON	21.7	6377/3107	LVW	6500	19.7	38.93	0.6272	0.03105	&WNS	RD	--
1		LZO	3.0	--	--	CK10706	TAHOE 4WD	A10/1	3.23	7700	265/65R18 AL2 MIC	22.7	6501/3159	LVW	6500	19.5	39.44	0.7291	0.02810	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10706	TAHOE 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6501/3159	LVW	6500	20.6	44.59	0.7264	0.02934	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10706	TAHOE 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6501/3159	LVW	6500	20.6	44.59	0.7264	0.02934	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10706	TAHOE 4WD	A10/1	3.23	7700	275/60R20 AL2 CON	21.7	6501/3159	LVW	6500	20.5	44.07	0.7361	0.02911	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10706	TAHOE 4WD	A10/1	3.23	7700	275/60R20 AT GDY	21.6	6501/3159	LVW	6500	21.6	45.16	0.7546	0.03162	&NQH&WNS&WUA	4D	--
1		LZO	3.0	--	--	CK10706	TAHOE 4WD	A10/1	3.23	7700	285/40R24 AL3 BRI	21.7	6501/3159	LVW	6500	20.9	44.81	0.7385	0.03006	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10706	TAHOE 4WD	A10/1	3.23	7700	285/40R24 AL3 BRI	21.7	6501/3159	LVW	6500	20.9	44.81	0.7385	0.03006	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10906	SUBURBAN 4WD	A10/1	3.23	7700	265/65R18 AL2 MIC	22.7	6671/3176	LVW	6500	19.8	39.44	0.7291	0.02918	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10906	SUBURBAN 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6671/3176	LVW	6500	20.9	44.59	0.7264	0.03041	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10906	SUBURBAN 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6671/3176	LVW	6500	20.9	44.59	0.7264	0.03041	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10906	SUBURBAN 4WD	A10/1	3.23	7700	275/60R20 AL2 CON	21.7	6671/3176	LVW	6500	20.8	44.07	0.7361	0.03019	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10906	SUBURBAN 4WD	A10/1	3.23	7700	275/60R20 AT GDY	21.6	6671/3176	LVW	6500	22.0	45.16	0.7546	0.03270	&NQH&WNS&WUA	4D	--
1		LZO	3.0	--	--	CK10906	SUBURBAN 4WD	A10/1	3.23	7700	285/40R24 AL3 BRI	21.7	6671/3176	LVW	6500	21.3	44.81	0.7385	0.03113	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	CK10906	SUBURBAN 4WD	A10/1	3.23	7700	285/40R24 AL3 BRI	21.7	6671/3176	LVW	6500	21.3	44.81	0.7385	0.03113	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	TC10706	YUKON 2WD	A10/2	3.23	7600	275/50R22 AL2 BRI	21.8	6276/3105	LVW	6500	19.6	39.45	0.6176	0.03067	&WNS	RD	--
1		LZO	3.0	--	--	TC10706	YUKON 2WD	A10/2	3.23	7600	275/60R20 AL2 CON	21.7	6276/3105	LVW	6500	19.5	38.93	0.6272	0.03045	&WNS	RD	--
1		LZO	3.0	--	--	TC10706	YUKON 2WD	A10/2	3.23	7600	285/40R24 AL3 BRI	21.7	6276/3105	LVW	6500	20.0	39.67	0.6297	0.03139	&WNS	RD	--
1		LZO	3.0	--	--	TC10906	YUKON XL 2WD	A10/2	3.23	7700	275/50R22 AL2 BRI	21.8	6439/3127	LVW	6500	19.8	39.45	0.6176	0.03122	&WNS	RD	--
1		LZO	3.0	--	--	TC10906	YUKON XL 2WD	A10/2	3.23	7700	275/60R20 AL2 CON	21.7	6439/3127	LVW	6500	19.7	38.93	0.6272	0.03100	&WNS	RD	--
1		LZO	3.0	--	--	TC10906	YUKON XL 2WD	A10/2	3.23	7700	285/40R24 AL3 BRI	21.7	6439/3127	LVW	6500	20.1	39.67	0.6297	0.03194	&WNS	RD	--
1		LZO	3.0	--	--	TK10706	YUKON 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6528/3181	LVW	6500	20.7	44.59	0.7264	0.02981	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10706	YUKON 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6528/3181	LVW	6500	20.7	44.59	0.7264	0.02981	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10706	YUKON 4WD	A10/1	3.23	7700	275/60R20 AL2 CON	21.7	6528/3181	LVW	6500	20.6	44.07	0.7361	0.02959	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10706	YUKON 4WD	A10/1	3.23	7700	275/60R20 AL2 CON	21.7	6528/3181	LVW	6500	20.6	44.07	0.7361	0.02959	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10706	YUKON 4WD	A10/1	3.23	7700	275/60R20 AT GDY	21.6	6528/3181	LVW	6500	21.7	45.16	0.7546	0.03209	&NQH&WNS&WUA	4D	--
1		LZO	3.0	--	--	TK10706	YUKON 4WD	A10/1	3.23	7700	285/40R24 AL3 BRI	21.7	6528/3181	LVW	6500	21.1	44.81	0.7385	0.03053	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10906	YUKON XL 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6688/3188	LVW	6500	20.9	44.59	0.7264	0.03036	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10906	YUKON XL 4WD	A10/1	3.23	7700	275/50R22 AL2 BRI	21.8	6688/3188	LVW	6500	20.9	44.59	0.7264	0.03036	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10906	YUKON XL 4WD	A10/1	3.23	7700	275/60R20 AL2 CON	21.7	6688/3188	LVW	6500	20.8	44.07	0.7361	0.03014	&NP0&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10906	YUKON XL 4WD	A10/1	3.23	7700	275/60R20 AL2 CON	21.7	6688/3188	LVW	6500	20.8	44.07	0.7361	0.03014	&NQH&WNS-WUA	4D	--
1		LZO	3.0	--	--	TK10906	YUKON XL 4WD	A10/1	3.23	7700	275/60R20 AT GDY	21.6	6688/3188	LVW	6500	21.9	45.16	0.7546	0.03264	&NQH&WNS&WUA	4D	--
1		LZO	3.0	--	--	TK10906	YUKON XL 4WD	A10/1	3.23	7700	285/40R24 AL3 BRI	21.7	6688/3188	LVW	6500	21.3	44.81	0.7385	0.03108	&NQH&WNS-WUA	4D	--
2		LZO	3.0	--	--	CC15543	SILVERADO 2WD	A10/5	3.23	7100	255/70R17 ALS CON	23.1	5959/2571	LVW	6000	19.1	41.65	0.3224	0.03434	--	RD	--
2		LZO	3.0	--	--	CC15543	SILVERADO 2WD	A10/5	3.23	7100	265/65R18 AT GDY	22.5	5959/2571	LVW	6000	19.6	42.11	0.3089	0.03586	--	RD	--
2		LZO	3.0	--	--	CC15543	SILVERADO 2WD	A10/5	3.23	7100	275/50R22 AL2 BRI	21.8	5959/2571	LVW	6000	19.3	37.83	0.2904	0.03686	--	RD	--
2		LZO	3.0	--	--	CC15543	SILVERADO 2WD	A10/5	3.23	7100	275/60R20 AL2 CON	21.7	5959/2571	LVW	6000	19.2	38.27	0.3050	0.03616	--	RD	--
2		LZO	3.0	--	--	CC15543	SILVERADO 2WD	A10/5	3.23	7100	275/60R20 AT BRI	21.6	5959/2571	LVW	6000	20.0	41.99	0.3280	0.03671	--	RD	--
2		LZO	3.0	--	--	CC15543	SILVERADO 2WD	A10/5	3.23	7100	LT265/70R17 AT BRI	22.5	5959/2571	LVW	6000	20.0	45.86	0.3228	0.03510	--	RD	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	255/70R17 ALS CON	23.1	6218/2659	LVW	6000	19.8	43.72	0.3766	0.03427	&NP0-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	265/65R18 AT GDY	22.5	6218/2659	LVW	6000	20.2	44.18	0.3631	0.03578	&NQH-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	275/50R22 AL2 BRI	21.8	6218/2659	LVW	6000	19.9	39.90	0.3446	0.03678	&NQH-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	275/60R20 AT BRI	21.6	6218/2659	LVW	6000	20.6	44.06	0.3822	0.03663	&NQH-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	275/60R20 AT BRI	21.6	6293/2730	LVW	6500	21.0	46.57	0.3935	0.03663	&NQH-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	275/65R20 AT HAN	20.9	6088/2573	LVW	6000	21.4	40.09	0.3745	0.04072	&NQH&Z7X	4D	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	LT265/70R17 AT BRI	22.5	6218/2659	LVW	6000	20.6	47.93	0.3770	0.03502	&NP0-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543	SILVERADO 4WD	A10/4	3.23	7200	LT265/70R17 AT BRI	22.5	6218/2659	LVW	6000	20.6	47.93	0.3770	0.03502	&NQH-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543+QSM	SILVERADO 4WD MUD TERRAIN TIRES	A10/4	3.23	7200	LT285/70R18 OOR GDY	21.1	6088/2573	LVW	6000	23.1	49.38	0.4037	0.04136	&NQH&Z7X	4D	--
2		LZO	3.0	--	--	CK15543+R30	SILVERADO 4WD MUD TERRAIN TIRES	A10/4	3.23	7200	LT275/65R18 OOR GDY	22.2	6218/2659	LVW	6000	21.4	47.96	0.3947	0.03720	&NQH-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15543+ZRX	SILVERADO 4WD ZR2	A10/3	3.23	7500	LT285/75R18 OOR GDY	20.4	6558/2841	LVW	6500	24.0	52.22	0.3781	0.04364	&NQH&ZRX	4D	--
2		LZO	3.0	--	--	CK15743	SILVERADO 4WD	A10/4	3.23	7300	255/70R17 ALS CON	23.1	6324/2683	LVW	6500	20.0	46.08	0.3868	0.03377	&NP0-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15743	SILVERADO 4WD	A10/4	3.23	7300	265/65R18 AT GDY	22.5	6324/2683	LVW	6500	20.5	46.90	0.3734	0.03529	&NQH-Z7X/ZRX	4D	--
2		LZO	3.0	--	--	CK15743	SILVERADO 4WD	A10/4														

Vehicle Parameters - Certificate Coverage

Durability Group VGMXDPDNNE88
TestGroup VGMXT03.0355

EC	Eng RPO	Eng Disp	Evap Family	Evap Code	Model	Car Line	Trans Type/Code	Final Drive Ratio	GVWR	Tire	N/V	Loaded Weight Veh/DA	TWC Meth	TWC	TLHP	F0	F1	F2	RLHP RPO	Drv Sys	Note
2	LZO	3.0	--	--	CK15743	SILVERADO 4WD	A10/4	3.23	7300	275/65R20 AT HAN	20.9	6324/2683	LVW	6500	21.6	42.30	0.3853	0.04020	&NQH&Z7X	4D	--
2	LZO	3.0	--	--	CK15743	SILVERADO 4WD	A10/4	3.23	7300	LT265/70R17 AT BRI	22.5	6324/2683	LVW	6500	20.8	50.60	0.3871	0.03452	&NP0-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	CK15743	SILVERADO 4WD	A10/4	3.23	7300	LT265/70R17 AT BRI	22.5	6324/2683	LVW	6500	20.8	50.60	0.3871	0.03452	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	CK15743+QSM	SILVERADO 4WD MUD TERRAIN TIRES	A10/4	3.23	7300	LT285/70R18 OOR GDY	21.1	6165/2582	LVW	6000	22.9	49.38	0.4037	0.04084	&NQH&Z7X	4D	--
2	LZO	3.0	--	--	CK15743+R3O	SILVERADO 4WD MUD TERRAIN TIRES	A10/4	3.23	7300	LT275/65R18 OOR GDY	22.2	6165/2582	LVW	6000	21.3	47.96	0.3947	0.03668	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TC15543	SIERRA 2WD	A10/5	3.23	7100	255/70R17 ALS CON	23.1	5852/2545	LVW	6000	19.4	41.65	0.3224	0.03505	--	RD	--
2	LZO	3.0	--	--	TC15543	SIERRA 2WD	A10/5	3.23	7100	275/50R22 AL2 BRI	21.8	5852/2545	LVW	6000	19.5	37.83	0.2904	0.03754	--	RD	--
2	LZO	3.0	--	--	TC15543	SIERRA 2WD	A10/5	3.23	7100	275/60R20 AL2 CON	21.7	5852/2545	LVW	6000	19.4	38.27	0.3050	0.03687	--	RD	--
2	LZO	3.0	--	--	TC15543	SIERRA 2WD	A10/5	3.23	7100	275/60R20 AT BRI	21.6	5852/2545	LVW	6000	20.2	41.99	0.3280	0.03739	--	RD	--
2	LZO	3.0	--	--	TC15543	SIERRA 2WD	A10/5	3.23	7100	LT265/70R17 AT BRI	22.5	5852/2545	LVW	6000	20.2	45.86	0.3228	0.03581	--	RD	--
2	LZO	3.0	--	--	TK15543	SIERRA 4WD	A10/4	3.23	7200	255/70R17 ALS CON	23.1	6292/2694	LVW	6500	20.4	46.08	0.3868	0.03500	&NP0-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15543	SIERRA 4WD	A10/4	3.23	7200	275/50R22 AL2 BRI	21.8	6292/2694	LVW	6500	20.5	42.23	0.3533	0.03749	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15543	SIERRA 4WD	A10/4	3.23	7200	275/60R20 AT BRI	21.6	6292/2694	LVW	6500	21.3	46.57	0.3935	0.03733	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15543	SIERRA 4WD	A10/4	3.23	7200	275/60R20 AT BRI	21.6	6285/2720	LVW	6500	21.3	46.57	0.3935	0.03733	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15543	SIERRA 4WD	A10/4	3.23	7200	275/65R20 AT HAN	20.9	6336/2716	LVW	6500	22.0	42.30	0.3853	0.04143	&NQH&Z7X	4D	--
2	LZO	3.0	--	--	TK15543	SIERRA 4WD	A10/4	3.23	7200	LT265/70R17 AT BRI	22.5	6292/2694	LVW	6500	21.2	50.60	0.3871	0.03576	&NP0-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15543	SIERRA 4WD	A10/4	3.23	7200	LT265/70R17 AT BRI	22.5	6292/2694	LVW	6500	21.2	50.60	0.3871	0.03576	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15543+QSM	SIERRA 4WD MUD TERRAIN TIRES	A10/4	3.23	7200	LT285/70R18 OOR GDY	21.1	6336/2716	LVW	6500	23.8	52.14	0.4158	0.04211	&NQH&Z7X	4D	--
2	LZO	3.0	--	--	TK15543+ZRX	SIERRA 4WD AT4X	A10/3	3.23	7500	LT285/75R18 OOR GDY	20.4	6573/2874	LVW	6500	24.2	52.22	0.3781	0.04411	&NQH&ZRX	4D	--
2	LZO	3.0	--	--	TK15743	SIERRA 4WD	A10/4	3.23	7300	255/70R17 ALS CON	23.1	6413/2725	LVW	6500	20.2	46.08	0.3868	0.03447	&NP0-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15743	SIERRA 4WD	A10/4	3.23	7300	275/50R22 AL2 BRI	21.8	6413/2725	LVW	6500	20.3	42.23	0.3533	0.03697	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15743	SIERRA 4WD	A10/4	3.23	7300	275/60R20 AT BRI	21.6	6413/2725	LVW	6500	21.1	46.57	0.3935	0.03681	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15743	SIERRA 4WD	A10/4	3.23	7300	275/60R20 AT BRI	21.6	6362/2729	LVW	6500	21.1	46.57	0.3935	0.03681	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15743	SIERRA 4WD	A10/4	3.23	7300	275/65R20 AT HAN	20.9	6413/2725	LVW	6500	21.8	42.30	0.3853	0.04090	&NQH&Z7X	4D	--
2	LZO	3.0	--	--	TK15743	SIERRA 4WD	A10/4	3.23	7300	LT265/70R17 AT BRI	22.5	6413/2725	LVW	6500	21.1	50.60	0.3871	0.03523	&NP0-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15743	SIERRA 4WD	A10/4	3.23	7300	LT265/70R17 AT BRI	22.5	6413/2725	LVW	6500	21.1	50.60	0.3871	0.03523	&NQH-Z7X/ZRX	4D	--
2	LZO	3.0	--	--	TK15743+QSM	SIERRA 4WD MUD TERRAIN TIRES	A10/4	3.23	7300	LT285/70R18 OOR GDY	21.1	6413/2725	LVW	6500	23.6	52.14	0.4158	0.04158	&NQH&Z7X	4D	--

TRANSMISSION INFORMATION

Test Group ID	VGMXT03.0355	VGMXT03.0355	VGMXT03.0355
Transmission Code	1	2	3
Transmission RPO	MQC	MQC	MQC
Transmission Type	A10	A10	A10
Drive Gear Ratios	4.7,2.99,2.15,1.77,1.52,1.28,1,0.85,0.69,0.64	4.7,2.99,2.15,1.77,1.52,1.28,1,0.85,0.69,0.64	4.7,2.99,2.15,1.77,1.52,1.28,1,0.85,0.69,0.64
Chain Drive Ratio	N/A	N/A	N/A
Shift Calibrations	Computer Controlled	Computer Controlled	Computer Controlled
Torque Converter Diameter	260	260	260
Torque Converter Stall Torque Ratio	1.81	1.81	1.81
Torque Converter Lockup RPM'S	Computer Controlled	Computer Controlled	Computer Controlled
Torque Converter Stall Torque Speed	2890 RPM @ 327 FT LB	2890 RPM @ 327 FT LB	2890 RPM @ 327 FT LB
Multimode Feature - # of Modes	6	5	5
Shift Indicator Light	N	N	N
Description	T1 SUV AWD MQC	T1 SUV RWD MQC	T1 LDPU MQC ZRX
TapUp/TapDown	No	No	No

TRANSMISSION INFORMATION

Test Group ID	VGMXT03.0355	VGMXT03.0355
Transmission Code	4	5
Transmission RPO	MQC	MQC
Transmission Type	A10	A10
Drive Gear Ratios	4.7,2.99,2.15,1.77,1.52,1.28,1,0.85,0.69,0.64	4.7,2.99,2.15,1.77,1.52,1.28,1,0.85,0.69,0.64
Chain Drive Ratio	N/A	N/A
Shift Calibrations	Computer Controlled	Computer Controlled
Torque Converter Diameter	260	260
Torque Converter Stall Torque Ratio	1.81	1.81
Torque Converter Lockup RPM'S	Computer Controlled	Computer Controlled
Torque Converter Stall Torque Speed	2890 RPM @ 327 FT LB	2890 RPM @ 327 FT LB
Multimode Feature - # of Modes	4	4
Shift Indicator Light	N	N
Description	T1 LDPU MQC AWD	T1 LDPU MQC RWD
TapUp/TapDown	No	No

SPECIAL TEST INSTRUCTIONS

DRIVER SELECTABLE MODES

Tow/Haul Mode:

Some vehicles are equipped with a trailer tow switch. To select the trailer tow mode, depress the trailer tow switch. The trailer tow light on the instrument panel cluster will illuminate. To go back to the normal operation, press the switch again. The indicator light on the instrument cluster will go out. Upon an engine restart, the trailer tow switch must be reactivated to enter the trailer tow mode.

Tap Shift (Manual Shift) Mode:

To select Tap Shift mode on automatic transmission vehicles (if equipped), move the gear shift lever to the manual mode position. Some vehicles require the additional step of pressing either “+” or “-” on the shifter to engage Tap Shift mode. Please refer to the Owner’s Manual for vehicle specific instructions. To go back to normal automatic mode, move the gear shift lever to “D”.

Other Modes:

Some vehicles are equipped with additional driver selectable modes. These vehicles are equipped with either additional gear shifter positions or a mode selection switch to engage each mode. Please refer to the Owner’s Manual for specific instructions on how to engage each mode.

OTHER

Drive Trace Tolerances:

The driver must attempt to follow the target schedule as closely as possible. Instantaneous speeds must stay within the following tolerances. The upper limit is 2.0 mph higher than the highest point on the trace within 1.0 s of the given point in time. The lower limit is 2.0 mph lower than the lowest point on the trace within 1.0 s of the given time.

Emission Test Vehicle Cooling Requirements:

For the federal test procedure at 75°, 50° and 20°, highway fuel economy test and US06 test cycles must use a road speed fan and 2 fixed speed Hartzell fans. All other cycles must use a road speed fan, as allowed by the regulations. Please contact General Motors Compliance and Certification organization for instructions on fan placement in test site.

Four-Wheel and All-Wheel Drive Vehicles:

Please contact General Motors Compliance and Certification organization for instructions on how to disable the four-wheel and all-wheel drive systems.

SPECIAL TEST INSTRUCTIONS (CONT.)

Traction Control and Anti-Lock Braking System (ABS):

Most General Motors vehicles come equipped with an electronic traction control system and an ABS system. During dynamometer testing, these systems will detect the difference in wheel speed between the front and rear wheels, and attempt to correct it by activating ABS and changing engine operation. Therefore, before emissions testing, the systems must be disabled. Some systems can be disabled by removing the under-hood ABS fuse, other systems will require a service tool connected to the Diagnostic Link Connector. Please contact General Motors Compliance and Certification organization for instructions on which fuse(s) to remove or service tools required.

Vehicle Moving Procedures for Electronic Transmission Range Selection Equipped Vehicles:

Some General Motors vehicles are equipped with an Electronic Transmission Range Selection (ETRS_ transmission. Please contact General Motors Compliance and Certification organization for instructions on how to move these vehicles in the test lab.

Automatic Headlight Systems:

Headlight must be turned off before each emission or fuel economy test. Please refer to the owner's manual for the location of the switch that controls the headlights.

Parking Brake:

All front wheel drive vehicles must have the parking brake set prior to any dynamometer emission testing.

Tire Pressure and Ballast:

Some vehicles in this test group may require additional ballast and reduction of tire pressure to prevent wheel slip. Please add ballast and change the tire pressure prior to emissions testing, according to the list below. For engine codes not listed, testing should be conducted as specified in the vehicle parameters page. Add 250 lbs. to rear axle and adjust tire pressure to 32 psi to minimize potential of wheel slip.

ENGINE STARTING INSTRUCTIONS

Warm or Cold Engine

For vehicles using a key, before starting the vehicle, the following conditions should exist:

- Gear selector in "Park" - automatic transmissions.
- Foot off accelerator.

- 1) Turn the ignition key to Position II, checking that the instrument panel tell-tales illuminate.
- 2) Wait for Glow Plug tell-tale to turn off.
- 3) Turn the ignition key to Position III to operate the starter motor.
- 4) When the engine fires, release the ignition key and allow it to return to Position II.

For vehicles using a push button start, the keyless access transmitter must be inside the vehicle for the ignition to work. To start the vehicle, do the following: With your foot on the brake pedal, press the START button located on the instrument panel. When the engine begins cranking, let go of the button and the engine cranks automatically until it starts.

Reference Owner's Manual for complete starting instructions.

SHIFT SCHEDULES - NA

<u>Trans Code</u>	<u>Shift Schedule</u>				<u>Recommended Shift Speeds (mph)</u>								
	<u>FTP</u>	<u>Hwy</u>	<u>SC03</u>	<u>US06*1</u>	<u>1-2</u>	<u>2-3</u>	<u>3-4</u>	<u>4-5</u>	<u>5-6</u>	<u>6-7</u>	<u>7-8</u>	<u>8-9</u>	<u>9-10</u>

*1 The speeds and acceleration rates encountered in the US06 driving schedule may require shift speeds different from the other schedules.

NA – Not Applicable



June 11, 2026

VP047

Mr. D. Cullen
U.S. Environmental Protection Agency
Office of Transportation & Air Quality
Certification & Compliance Division
2000 Traverwood
Ann Arbor, MI 48105

Dear Mr. Cullen:

Subject: Request for Certificate of Conformity - General Motors 2027 Test Group
VGMXT03.0355

General Motors requests that the EPA issue a certificate of conformity for the subject test group. GM requests the EPA review this application promptly to expedite final approval of the certificate of conformity for the subject test group. Attached to this request is the Part 1 Application.

GM requests that the EPA treat the information contained in this Part 1 Application, or information subsequently submitted for inclusion in this application, as confidential business information under 40 C.F.R. Part 2, Subpart B, and 5 U.S.C. § 552. The EPA's General Counsel made a class determination that information contained in applications for certification is entitled to confidential treatment (see Class Determination 1-13). As such, GM requests that the information described in each Table of the Class Determination be accorded confidential treatment in accordance with the time periods specified.

GM attests that the test group complies with all applicable regulations contained in 40 C.F.R. Parts 85 and 86, and the applicable California Amendments of the EPA regulations it has incorporated, and Title 13 of the California Code of Regulations.

Please review this information as soon as possible and call if you should have any questions regarding this request for a certificate of conformity.

Sincerely,

C. S. Yager

C. S. Yager
Total Certification Engineer
Compliance & Certification

CSY/ks

general motors

GM Proving Ground / Compliance & Certification / M/C 483-331-500 / 3300 GM Rd. / Milford, MI 48380-3726



June 11, 2026

VP048

Ms. Robin U. Lang, Chief
Emissions Certification and Compliance Division
California Air Resources Board
4001 Iowa Avenue
Riverside, CA 92507

Dear Ms. Lang:

Subject: Request for Executive Order - General Motors 2027 Test Group VGMXT03.0355

General Motors requests that CARB issue an executive order for the subject test group. GM requests that the CARB treat the information contained in this Part 1 Application, or information subsequently submitted for inclusion in this application, as confidential business information pursuant to the California Public Records Act and Sections 91000-91022 of Title 17 of the California Code of Regulations. The information is confidential and sensitive GM business information that constitutes trade secrets and commercial or financial information within the meaning of Section 6254.7 of the California Public Records Act, is entitled to confidential treatment, and will cause substantial competitive harm to GM if released. In the event that CARB does not agree with our position regarding confidential treatment of this information or is considering the public release of this confidential, trade secret, and commercial or financial information, or receives a request for disclosure of the information, we request that you first provide notice to me and we request the opportunity to discuss the material and the need to maintain the confidentiality of this information with you or the CARB General Counsel before any decision is made regarding its release. GM requests that the information be accorded confidential treatment indefinitely.

GM attests that the test group complies with all applicable regulations contained in 40 C.F.R. Parts 85 and 86, and the applicable California Amendments of the EPA regulations that CARB has incorporated and Title 13 of the California Code of Regulations.

GM recognizes that on June 12, 2025, a Congressional Review Act resolution came into effect disapproving the waiver that EPA had issued to CARB granting it authority to enforce the LEV IV regulation, which would have previously controlled for this executive order. In response to CARB's emergency request to temporarily reinstate the agency's LEV III regulations, EPA advised CARB that "...even if a preexisting regulation previously obtained a waiver, such waiver is no longer extant if the regulation became ineffective at any time, whether through the passage of time, repeal, or by any other means." On October 2, 2025, the California Office of Administrative Law approved CARB's emergency amendment intended to temporarily reinstate the agency's LEV III regulations. On March 26, 2026, OAL approved CARB's 90-day extension of its emergency amendment through July 1, 2026. In requesting an executive order consistent with the temporary emergency amendment, GM is not taking a position with respect to the validity or enforceability of any CARB requirements that may have been subject to Congressional Review Act resolutions or for which an EPA waiver of preemption has become ineffective.

general motors

GM Proving Ground / Compliance & Certification / M/C 483-331-500 / 3300 GM Rd. / Milford, MI 48380-3726

The EPA certificate of conformity for this test group will be forwarded to you when it becomes available.

Based upon our review prior to submitting the application for certification and to the best of our current information and belief, the GM vehicles described in this request for executive order do not employ defeat devices, and do not use alternative maps or AECDs that have not been declared, nor does our emission control system include strategies that link transmission controls (input or output) to these AECDs. In addition, we do not use control strategies that would trigger different transmission behavior when driven on an official emission test compared to when driven on the road under the same conditions. We are submitting this statement to you in good faith. If, in the future, we identify any new relevant information, we will notify CARB in a timely fashion.

Please review this information as soon as possible and call if you have any questions regarding this request for an executive order.

Sincerely,

C. S. Yager

C. S. Yager
Total Certification Engineer
Compliance & Certification

CSY/ks

EMISSION DATA RATIOS (DIESEL)

	<u>Data Ratios</u>
NMHC (G/MI)	NA
NMOG (G/MI)	NA
HCHO (G/MI)	NA
NMOG:NMHC	1.00
HCHO:NMHC	NA

*** VEHICLE INFORMATION ***

Model Year	2027	Certifying Agent	GM
Test Vehicle	30KLSVT496	GM Config	007
		Run Date	06/16/2026 15:11:14

VEHICLE NO:	30KLSVT496	CONFIGURATION NO:	007	EPA VERSION NO:	00
ENG FAM/TEST GRP:	VGMXT03.0355	ENGINE CODE:	1	ORIGINAL CERT YEAR:	2025
EVAP FAMILY:	NA	EVAP CODE:	NA	SALES LOC:	BOTH
TEST PURPOSE:	DATA	DISPL:	3.0	EMIS CATEGORY: FED=	BIN70 PM3 .062 .080
VEH TYPE: FED=	LDT4	CAL=	L2M3	CAL=	ULEV70 PM

DURA GRP:	VGMXDPDNNE88	DURA VEH NO:		DURA CONFIG:	
FUEL METER:	CRDI CMN RAIL DSL DIR INJ	BOOST TYPE:		VALVES PER CYL:	4

TRANS: TYPE=	A10	CODE= 1	MODE= Trailer	SIL EQUIPPED:	No	SIL VERSION:	N/A
SHIFT SCHEDULE:	N/A	SHIFT SCHED NO:					
EVAP CANISTER SIZE(L):		AUX=				PRIMARY FUEL:	DIES
TANK CAPACITY (GAL): PRIM=	28	USAGE: F=	FA	C=	CA		
PREMIUM FUEL RECOM'D:	N						
DYNAMOMETER DRIVE AXLE:	R	REAR=	32	A/C EQ:	Y		
TIRE PRESS(PSI): FRT=	32	F1= 0.7546		F2= 0.0327		TRLHP 68d:	22.0
68d ROADLOAD: F0=	45.16	F1= 0.8301		F2= 0.03597		TRLHP 20d:	24.1
20d ROADLOAD: F0=	49.68						

WEIGHTS (LBS):		EPA CURB:	6371	GVWR:	7700	TIRES:	
ETW: 6500						VENDOR:	GDY
						TREAD TYPE:	AT
		SIZE:					275/60R20
DESIGN:		CURB WEIGHT/TEST WT CLASS TYPE	6371/LVW	DRIVE AXLE	3176		

REP VEH MODEL:	CK10906	FIN DR RATIO:	3.23	N/V:	21.6	ENG RPO:	LZ0
ACTUAL MODEL NO:	TK10906						
RATED HP:	305	TCC:	Y				
OVERDRIVE:	Y	CREEPER:	N	PS:	YES	PB:	YES
MODE LINK CONFS:		C/O CONF:	001	SIL LINK CONF:			
ZERO-MILE ODO:	0	ODO CORR:	1.00				

COMMENTS

T1 SUV 150K EDV, Tow Haul Mode,
Test in 2WD Mode on 4WD Dyno,
Recommended Tire Pressure 35 set
to 32 for traction during testing,
250lb ballast added to vehicle

*** VEHICLE INFORMATION ***

Model Year	2027	Certifying Agent	GM
Test Vehicle	30KLSVT496	GM Config	008
		Run Date	06/16/2026 15:11:44

VEHICLE NO:	30KLSVT496	CONFIGURATION NO:	008	EPA VERSION NO:	01
ENG FAM/TEST GRP:	VGMXT03.0355	ENGINE CODE:	1	ORIGINAL CERT YEAR:	2025
EVAP FAMILY:	NA	EVAP CODE:	NA	SALES LOC:	BOTH
TEST PURPOSE:	DATA	DISPL:	3.0	EMIS CATEGORY: FED=	BIN70 PM3 .062 .080
VEH TYPE: FED=	LDT4	CAL=	L2M3	CAL=	ULEV70 PM

DURA GRP:	VGMXDPDNNE88	DURA VEH NO:		DURA CONFIG:	
FUEL METER:	CRDI CMN RAIL DSL DIR INJ	BOOST TYPE:		VALVES PER CYL:	4

TRANS: TYPE=	A10	CODE= 1	MODE= Trailer	SIL EQUIPPED:	No	SIL VERSION:	N/A
SHIFT SCHEDULE:	N/A	SHIFT SCHED NO:					
EVAP CANISTER SIZE(L):		AUX=				PRIMARY FUEL:	DIES
TANK CAPACITY (GAL): PRIM=	28	USAGE: F=	FA	C=	CA		
PREMIUM FUEL RECOM'D:	N						
DYNAMOMETER DRIVE AXLE:	R	REAR=	32	A/C EQ:	Y		
TIRE PRESS(PSI): FRT=	32	F1= 0.7546		F2= 0.0327		TRLHP 68d:	22.0
68d ROADLOAD: F0=	45.16	F1= 0.8301		F2= 0.03597		TRLHP 20d:	24.1
20d ROADLOAD: F0=	49.68						

WEIGHTS (LBS):		EPA CURB:	6371	GVWR:	7700	TIRES:	
ETW: 6500						VENDOR:	GDY
						TREAD TYPE:	AT
DESIGN:		CURB WEIGHT/TEST WT CLASS TYPE	6371/LVW	DRIVE AXLE	3176	SIZE:	275/60R20

REP VEH MODEL:	CK10906	FIN DR RATIO:	3.23	N/V:	21.6	ENG RPO:	LZ0
ACTUAL MODEL NO:	TK10906						
RATED HP:	305	TCC:	Y				
OVERDRIVE:	Y	CREEPER:	N	PS:	YES	PB:	YES
MODE LINK CONFS:		C/O CONF:	002	SIL LINK CONF:			
ZERO-MILE ODO:	0	ODO CORR:	1.00				

COMMENTS

T1 SUV 150K EDV, Normal Mode,
Test in 2WD Mode on 4WD Dyno,
Recommended Tire Pressure 35 set
to 32 for traction during testing,
250lb ballast added to vehicle

1MY2027LZ0NL3WNS6

Jul 06 2026 09:01:43

1R1

1AZ0295858



483869



**VEHICLE EMISSION
CONTROL INFORMATION**



**GENERAL
MOTORS
LLC**

Conforms to Regulations: 2027
U.S. EPA class / stds: LDT / BIN70
California class / stds: LDT / ULEV70
Group: VGMXT03.0355 3.0L
Evap: N/A
DFI/TC/CAC/HP-EGR/LP-EGR/EGRC/OC/SCRC+DPF-SCRC/SCRC+NH3OC/NOXS(3)/
RDQS/PMS CA OBD: II

Fuel: Diesel
1MY2027LZ0NL3WNS6
Date: 2605

6MY2027LZ0NL3WNS0

Jul 06 2026 09:01:44

1Z1

1FA5898815



7LP030



**VEHICLE EMISSION
CONTROL INFORMATION**



**GENERAL
MOTORS
LLC**

Conforms to Regulations: 2027
U.S. EPA class / stds: LDT / BIN70
California class / stds: LDT / ULEV70
Group: VGMXT03.0355 3.0L
Evap: N/A
DFI/TC/CAC/HP-EGR/LP-EGR/EGRC/OC/SCRC+DPF-SCRC/SCRC+NH3OC/NOXS(3)/
RDQS/PMS CA OBD: II

Fuel: Diesel
6MY2027LZ0NL3WNS0
Date: 2604

VGMXT03.0355 UAF/DAF Calculations

Miles to fill device:

311

Fractional number of FTP72 tests to fill device:

41.74

Whole number of FTP72 tests with regen emissions:

1

Regen Frequency F:

0.023

EFH

NMOG	CO	NOX	PM	Test Number	Test Type
0.0414	0.17	0.3316	0.0133	MS10024326	9102
0.0194	0.13	0.0512	0.0001	MS11016718	9102
0.0199	0.13	0.0577	0.0004	--	--
0.0005	0.00	0.0065	0.0003	--	--
-0.0215	0.00	-0.2739	-0.0129	--	--

EFL

EFA

UAF

DAF

Test Vehicle:

30KLSVT496