

APPLICATION FOR CERTIFICATION

2027 MODEL YEAR

Durability Group:	VGMXGPGNNB54
Test Group:	VGMXV05.5094
Summary Sheet No:	N/A
Durability Group Description:	Four Stroke, Otto Cycle, Gasoline Fueled, DFI, Ceramic Monolith Pd/Rh Catalyst
Durability Vehicle:	NA - Aged Components
OBD Group:	VGMXOBDG07
Test Group Description:	5.5L V8
Applicable Standards:	California CAR BIN 125/ULEV 125
Carlines Covered by Evaporative Family:	5.5L Chevrolet CORVETTE Z06 Chevrolet CORVETTE Z06 CARBON AERO Chevrolet CORVETTE ZR1 VGMXR01383CC
Vehicles Tested:	1TYS2544
For Questions, Contact:	Omar Aljabali (248-221-0427)

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TEST VEHICLE DESCRIPTION

<u>Vehicle Selection</u>	<u>Durability Vehicle Selection</u>	<u>Emission-Data</u>
Test Group	NA – Aged Components	VGMXV05.5094
Evaporative Family		VGMXR01383CC
Displacement – Liters		5.5
Engine Code		1
Emission Control System		
Exhaust		DFI/2WR-HO2S/2TWC/2HO2S
Evap		C/CCP/IC
Model		1YH67
Transmission Type/Code		T8/1
Shift Schedule		NA
(LVW/ALVW) Test Weight – Lbs		4250
GVWR		NA
Dyno Horsepower/Type		NA
Roadload HP		17.9
Final Drive		5.56
N/V Ratio – rpm/mph		22.9
Tires		345/25ZR21– (Rear)
Vehicle/EPA Config No./GM Config No.		
FTP & HWFE		551TYS2544/00/000
SFTP		551TYS2544/00/000
20° CO		551TYS2544/00/000

NOTE: For complete vehicle information, see vehicle information submitted in EV-CIS database.

Data Vehicle Selection Justification - This vehicle is expected to be worst-case for exhaust emission compliance on candidate in-use vehicles, considering all exhaust emission constituents, all exhaust test procedures, and the potential impact of air conditioning on test results.

2027 EMISSION STANDARDS
 BIN125 (PC)
 TEST GROUP NAME: VGMXV05.5094
 EVAPORATIVE FAMILY NAME(S): VGMXR01383CC

CERTIFICATION & IN-USE STANDARDS

LOW AND HIGH ALTITUDE:

	FTP TEST						
	Low Altitude NMOG+NOx	High Altitude NMOG+NOx	CO	HCHO	PM	CH4	N2O
120K STD	NA	NA	NA	NA	NA	0.030	0.010
150k STD	0.125	0.160	2.1	0.004	0.003	NA	NA

	HWY TEST		20 °F TEST	
	Low Altitude NMOG+NOx	High Altitude NMOG+NOx	CO	NMHC
50K STD	NA	NA	10.0	NA
120K STD	NA	NA	NA	0.3
150k STD	0.125	0.160	NA	NA

SFTP - LOW ALTITUDE:

	US06 PM	COMPOSITE ^{*1} NMOG+NOx	COMPOSITE ^{*1} CO
150K STD	0.006	0.120	4.2

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

2027 EMISSION STANDARDS
 LEV3 ULEV125 (PC)
 TEST GROUP NAME: VGMXV05.5094
 EVAPORATIVE FAMILY NAME(S): VGMXR01383CC

CERTIFICATION & IN-USE STANDARDS

	FTP TEST				HWY TEST	20 °F TEST
	NMOG+NOx	CO	HCHO	PM	NMOG+NOx	CO
50K STD	NA	NA	NA	NA	NA	10.0
150K STD (Low)	0.125	2.1	0.004	0.003	0.125	NA
150K STD (High)	0.160	2.1	0.004	0.003	0.160	

SFTP - LOW ALTITUDE:

	US06 PM	COMPOSITE ^{*1} NMOG+NOx	COMPOSITE ^{*1} CO
	150K STD	0.006	0.120

50 °F TEST:

	NMOG+NOx	CO	HCHO
4K E10 STD	0.250	2.1	0.016

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

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

86.1844(d)(7)-VGMXV05.5094

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		
VGMXV05.5094	551TYS2544	000	1,2,3,4,5	11.1081	11.4	10.7	Pass	17.2287	18.5	16.4	Pass	5 Cycle Lookup / 2 Cycle Derived (EMIS, HWFE)	OFFICIAL

Close

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/04/2026 11:04:52 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Multi-layer with HDPE and EVOH				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	HCA				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	138	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
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				
VGMXR01383CC-LK1	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
General Motors LLC	3 - Chevrolet	15 - CORVETTE Z06 CARBON AERO	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	8	No
General Motors LLC	3 - Chevrolet	18 - CORVETTE ZR1	Federal	2-Wheel Drive, Rear	Semi-Automatic	8	No
General Motors LLC	3 - Chevrolet	18 - CORVETTE ZR1	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	8	No
General Motors LLC	3 - Chevrolet	15 - CORVETTE Z06 CARBON AERO	Federal	2-Wheel Drive, Rear	Semi-Automatic	8	No
General Motors LLC	3 - Chevrolet	14 - CORVETTE Z06	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	8	No
General Motors LLC	3 - Chevrolet	14 - CORVETTE Z06	Federal	2-Wheel Drive, Rear	Semi-Automatic	8	No

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Engine Description			
Hybrid Type	--	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	5W50
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Palladium + Rhodium	Ceramic
Substrate Construction			
			Monolith
			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)	5.5	Engine Rated Horsepower	670
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	0
Air Aspiration Device Configuration	--	Charge Air Cooler Type	N/A
Air Aspiration Drive Method(s)	--		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Cam Phaser		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	--		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Engine Configuration Number 2			
Engine Displacement (liters)	5.5	Engine Rated Horsepower	1064
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Liquid
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Cam Phaser		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	--		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Official Test Numbers

Test Group	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	VGMX10093370	VGMX10093372	VGMX10093373	VGMX10093374	VGMX10093371	--	10.7	--	16.5	--

Certification Summary Information Report

Test Group		VGMXV05.5094			Evaporative/Refueling Family			VGMXR01383CC
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	38.18	0.7301	0.02372	10.45	-0.0149	0.02801	17.9	
Cold CO	42	0.8031	0.02609	3.7	-0.0849	0.03038	N/A	
US06	38.18	0.7301	0.02372	10.45	-0.0149	0.02801	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	EDV CONFIG TESTED WITH 16 PSI TIRES PRESSURE TO AVOID DYNO SLIP.							

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093370	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/02/2026	Fuel	Gasoline
Fuel Batch ID	003030	Fuel Calibration Number	9427
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4008	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)
METHANE (CH4 - Methane)	0.007348	--
CO (Carbon Monoxide)	0.48941	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.195123	--
DT-EER (Drive Trace Energy Economy Rating)	0.374398	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.292993	--
MFR FE (Manufacturer Fuel Economy)	13.5	13.5
NOX (Nitrogen Oxide)	0.010786	--
N2O (Nitrous Oxide)	0.00052	--
HC-NM (Non-methane Hydrocarbon)	0.0476	--
NMOG (Non-methane organic gases)	0.052333	--
PM (Particulate Matter)	0.001303	--
HC-TOTAL (Total Hydrocarbon)	0.05393	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	644	644

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	643.179	--

Manufacturer Test Comments 150K EMIS TEST

Certification Summary Information Report

Test Group		VGMXV05.5094				Evaporative/Refueling Family				VGMXR01383CC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 125	CREE	644	1	--	--	0	--	644	--	--
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0.0073	1	--	--	--	--	0.007	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0005	1	--	--	--	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.49	1	--	--	--	--	0.5	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.35	1	--	--	--	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0523	1	--	--	--	--	0.052	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0631	1	--	--	--	--	0.063	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0322	1	--	--	--	--	0.032	0.120	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0108	1	--	--	--	--	0.011	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0013	1	--	--	--	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.49	1	--	--	--	--	0.5	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	CO-COMP	0.35	1	--	--	--	--	0.4	4.2	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0523	1	--	--	--	--	0.052	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0631	1	--	--	--	--	0.063	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX-COMP	0.0322	1	--	--	--	--	0.032	0.120	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0108	1	--	--	--	--	0.011	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0013	1	--	--	--	--	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093374	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	02/13/2026	Fuel	Gasoline
Fuel Batch ID	003038	Fuel Calibration Number	9432
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4100	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)
METHANE (CH4 - Methane)	0.028494	--
CO (Carbon Monoxide)	1.25436	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.384919	--
DT-EER (Drive Trace Energy Economy Rating)	0.236003	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.397861	--
MFR FE (Manufacturer Fuel Economy)	12.2	12.2
NOX (Nitrogen Oxide)	0.015343	--
HC-NM (Non-methane Hydrocarbon)	0.122144	--
NMOG (Non-methane organic gases)	0.134471	--
HC-TOTAL (Total Hydrocarbon)	0.149022	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	711.874	--

Manufacturer Test Comments

150K COLD TEST

Certification Summary Information Report

Test Group		VGMXV05.5094				Evaporative/Refueling Family				VGMXR01383CC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 125	CO	1.25	1	--	--	--	--	1.2	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.12	1	--	--	--	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-III ULEV125	CO	1.25	1	--	--	--	--	1.2	10.0	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093375	Test Procedure	31 - Federal fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	02/16/2026	Fuel	Gasoline
Fuel Batch ID	000307	Fuel Calibration Number	9440
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4119	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)	626.565	--
FE BAG 1 (Bag 1 Fuel Economy)	14.1	14.1
CO2 BAG 2 (Bag 2 Carbon Dioxide)	729.665	--
FE BAG 2 (Bag 2 Fuel Economy)	12.2	12.2
CO2 BAG 3 (Bag 3 Carbon Dioxide)	543.4	--
FE BAG 3 (Bag 3 Fuel Economy)	16.4	16.4
METHANE (CH4 - Methane)	0.008226	--
CO (Carbon Monoxide)	0.508622	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.082675	--
DT-EER (Drive Trace Energy Economy Rating)	0.198902	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.051926	--
MFR FE (Manufacturer Fuel Economy)	13.6	13.6
NOX (Nitrogen Oxide)	0.013204	--
N2O (Nitrous Oxide)	0.000635	--
HC-NM (Non-methane Hydrocarbon)	0.04306	--
NMOG (Non-methane organic gases)	0.04436	--
HC-TOTAL (Total Hydrocarbon)	0.050068	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	658	658

Certification Summary Information Report

Test Group		VGMXV05.5094		Evaporative/Refueling Family				VGMXR01383CC				
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		657.209		--						
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 125	CREE	658	1	--	--	0	--	658	--	--
Fed	120,000 miles	Federal Tier 3 Bin 125	METHANE	0.0082	1	--	--	--	--	0.008	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	N2O	0.0006	1	--	--	--	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.51	1	--	--	--	--	0.5	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0444	1	--	--	--	--	0.044	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0576	1	--	--	--	--	0.058	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0132	1	--	--	--	--	0.013	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.51	1	--	--	--	--	0.5	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0444	1	--	--	--	--	0.044	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0576	1	--	--	--	--	0.058	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0132	1	--	--	--	--	0.013	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	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093377	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/25/2026	Fuel	Gasoline
Fuel Batch ID	003030	Fuel Calibration Number	9444
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4161	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)
METHANE (CH4 - Methane)	0.016803	--
CO (Carbon Monoxide)	0.729002	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.068051	--
DT-EER (Drive Trace Energy Economy Rating)	-0.037168	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.307678	--
NOX (Nitrogen Oxide)	0.013194	--
HC-NM (Non-methane Hydrocarbon)	0.06495	--
NMOG (Non-methane organic gases)	0.071509	--
HC-TOTAL (Total Hydrocarbon)	0.080655	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	665.902	--

Manufacturer Test Comments

4K 50 DEG TEST

Certification Summary Information Report

Test Group		VGMXV05.5094				Evaporative/Refueling Family				VGMXR01383CC		
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-III ULEV125	CO	0.73	1	--	--	--	--	0.7	2.1	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG	0.0715	1	--	--	--	--	0.072	99.999	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0847	1	--	--	--	--	0.085	0.250	Pass
CA	4,000 miles	California LEV-III ULEV125	NOX	0.0132	1	--	--	--	--	0.013	99.999	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093371	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/02/2026	Fuel	Gasoline
Fuel Batch ID	003030	Fuel Calibration Number	9427
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4019	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)
METHANE (CH4 - Methane)	0.000417	--
CO (Carbon Monoxide)	0.045118	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.38407	--
DT-EER (Drive Trace Energy Economy Rating)	0.125462	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.24294	--
MFR FE (Manufacturer Fuel Economy)	23.6	23.6
NOX (Nitrogen Oxide)	0.001024	--
N2O (Nitrous Oxide)	0.000035	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.000249	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	368	368

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	368.45	--

Manufacturer Test Comments

150K HWFE TEST

Certification Summary Information Report

Test Group		VGMXV05.5094				Evaporative/Refueling Family				VGMXR01383CC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 125	CREE	368	1	--	--	0	--	368	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0000	1	1.03	--	--	--	0.000	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0010	1	--	--	--	--	0.001	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0010	1	--	--	--	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0000	1	1.03	--	--	--	0.000	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0010	1	--	--	--	--	0.001	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0010	1	--	--	--	--	0.001	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	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093376	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	02/16/2026	Fuel	Gasoline
Fuel Batch ID	000307	Fuel Calibration Number	9440
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4130	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)
METHANE (CH4 - Methane)	0.005502	--
CO (Carbon Monoxide)	0.053433	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.28939	--
DT-EER (Drive Trace Energy Economy Rating)	0.400214	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.48591	--
MFR FE (Manufacturer Fuel Economy)	23.8	23.8
NOX (Nitrogen Oxide)	0.002594	--
N2O (Nitrous Oxide)	0.000887	--
HC-NM (Non-methane Hydrocarbon)	0.001411	--
NMOG (Non-methane organic gases)	0.001454	--
HC-TOTAL (Total Hydrocarbon)	0.006551	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	375	375

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	374.643	--

Manufacturer Test Comments

150K HWFE TEST

Certification Summary Information Report

Test Group		VGMXV05.5094				Evaporative/Refueling Family				VGMXR01383CC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 125	CREE	375	1	--	--	0	--	375	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0015	1	1.03	--	--	--	0.002	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0041	1	--	--	--	--	0.004	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0026	1	--	--	--	--	0.003	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0015	1	1.03	--	--	--	0.002	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0041	1	--	--	--	--	0.004	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0026	1	--	--	--	--	0.003	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	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093372	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/02/2026	Fuel	Gasoline
Fuel Batch ID	003030	Fuel Calibration Number	9427
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4041	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)
METHANE (CH4 - Methane)	0.00551	--
CO (Carbon Monoxide)	0.134711	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.3013	--
DT-EER (Drive Trace Energy Economy Rating)	-0.586705	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.19146	--
MFR FE (Manufacturer Fuel Economy)	18.1	18.1
NOX (Nitrogen Oxide)	0.009147	--
HC-NM (Non-methane Hydrocarbon)	0.001268	--
NMOG (Non-methane organic gases)	0.001306	--
PM (Particulate Matter)	0.000992	--
HC-TOTAL (Total Hydrocarbon)	0.006415	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	480.655	--

Manufacturer Test Comments 150K US06 TEST

Certification Summary Information Report

Test Group		VGMXV05.5094				Evaporative/Refueling Family				VGMXR01383CC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.13	1	--	--	--	--	0.1	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0013	1	1.03	--	--	--	0.001	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0104	1	--	--	--	--	0.010	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0091	1	--	--	--	--	0.009	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0010	1	--	--	--	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.13	1	--	--	--	--	0.1	99.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0013	1	1.03	--	--	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0104	1	--	--	--	--	0.010	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0091	1	--	--	--	--	0.009	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0010	1	--	--	--	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	VGMX10093373	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	02/11/2026	Fuel	Gasoline
Fuel Batch ID	003030	Fuel Calibration Number	9426
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4065	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
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)
METHANE (CH4 - Methane)	0.006608	--
CO (Carbon Monoxide)	0.380224	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.295734	--
DT-EER (Drive Trace Energy Economy Rating)	-0.337583	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.132115	--
MFR FE (Manufacturer Fuel Economy)	12.3	12.3
NOX (Nitrogen Oxide)	0.018632	--
HC-NM (Non-methane Hydrocarbon)	0.000942	--
NMOG (Non-methane organic gases)	0.00097	--
HC-TOTAL (Total Hydrocarbon)	0.007055	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	707.246	--

Manufacturer Test Comments

150K SC03 TEST

Certification Summary Information Report

Test Group		VGMXV05.5094				Evaporative/Refueling Family				VGMXR01383CC		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.38	1	--	--	--	--	0.4	99.9	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0010	1	1.03	--	--	--	0.001	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0196	1	--	--	--	--	0.020	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0186	1	--	--	--	--	0.019	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.38	1	--	--	--	--	0.4	99.9	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0010	1	1.03	--	--	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0196	1	--	--	--	--	0.020	99.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0186	1	--	--	--	--	0.019	99.999	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094		Evaporative/Refueling Family	VGMXR01383CC							
Emission Data Vehicle Information											
Vehicle ID / Configuration	621LYV2252 / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	LGMXV06.2091		Original Evaporative/Refueling Family	LGMXR01383CC							
Original Test Vehicle Model Year	2020										
Vehicle Model											
Represented Test Vehicle Make	CHEVROLET		Represented Test Vehicle Model	CORVETTE							
Leak Family Details											
Leak Family Identifier	LK1		Leak Family Name	LGMXR01383CC-LK1							
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 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 Factor	1							
Odometer Correction -- Initial	0										
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	495							
Displacement (liters)	6.2		Air Aspiration Method, if 'Other'	NATURALLY ASPIRATED							
Air Aspiration Method	Naturally Aspirated		Air Aspiration Device Configuration	--							
Number of Air Aspiration Devices	0		Drive Mode While Testing	2-Wheel Drive, Rear							
Charge Air Cooler Type	N/A		Aged Emission Components	150,000 (mi)							
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	4000							
Curb Weight (lbs)	3715		N/V Ratio	21.8							
GVWR (lbs)	--										
Axle Ratio	5.17		# of Transmission Gears	8							
Transmission Type	Semi-Automatic		Creeper Gear	No							
Transmission Lockup	Yes										
Dynamometer Coefficients:											
Target Coefficients			Set Coefficients								
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients				
City/Highway/Evap	34.01	0.788	0.01737	14.63	-0.0596	0.02304	15.6				
Emission Control Device Comments						LT2 / MIL / &Z51 Performance					

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
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Manufacturer Test Vehicle Comments --

Test #	LGMX10062250	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	LGMX10062247	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/30/2019	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Milford North		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4126	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2653	--

Manufacturer Test Comments 4K EVF3 TEST

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	0.2653	0.0000	0.265	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2653	0.0000	0.265	0.500	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	LGMX91004536	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	LGMX91004533	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	11/21/2019	Fuel	Gasoline
Fuel Batch ID	27626	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Actual FID w/o Speciation (EPA Only)		
Test Start Odometer Reading	4300	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.232673	--

Manufacturer Test Comments Hot_Soak_HC_(g) = 0.055770, Diurnal (gHC) = 0.176903

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	0.2327	0.0000	0.233	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2327	0.0000	0.233	0.500	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Test #	LGMX10062249	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	LGMX10062247	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/30/2019	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4126	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00035	--

Manufacturer Test Comments 4K EVFR TEST

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
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Test #	LGMX10062251	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	LGMX10062247	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	11/06/2019	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4198	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0449	--

Manufacturer Test Comments 4K ORVR TEST

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	0.045	0.000	0.04	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.045	0.000	0.04	0.20	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
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Test #	LGMX10062252	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/17/2019	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Compliance and Certification		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4000	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.00709	--

Manufacturer Test Comments 4K CBLD TEST

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0071	0.000	0.007	0.020	Pass

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Fuel Properties			
Fuel Batch ID	003030	Fuel Calibration Number	9427
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/22/2026
Fuel Batch Calibration Effective Date	01/22/2026	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.445	Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	000307	Fuel Calibration Number	9440
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/20/2025
Fuel Batch Calibration Effective Date	11/20/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18438
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	Weight Fraction CO2	--
Fuel Batch ID	27626	Fuel Calibration Number	2
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/11/2018
Fuel Batch Calibration Effective Date	12/11/2018	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 (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18001
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	003038	Fuel Calibration Number	9432
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	09/09/2025
Fuel Batch Calibration Effective Date	09/09/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.746
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17788
Fuel Net Heat of Combustion (E10) (MJ/kg)	44.444	Fuel Carbon Mass Fraction (E10)	0.999
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	003030	Fuel Calibration Number	9444
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/26/2026
Fuel Batch Calibration Effective Date	02/25/2026	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17748
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	003030	Fuel Calibration Number	9426
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/20/2025
Fuel Batch Calibration Effective Date	08/20/2025	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 (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17818
Fuel Net Heat of Combustion (E10) (MJ/kg)	44.444	Fuel Carbon Mass Fraction (E10)	0.999
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VGMXV05.5094			Evaporative/Refueling Family			VGMXR01383CC		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	1	--	--	--	--	--	99.9	
150,000 miles	NMOG	--	1	1.03	--	--	--	--	99.999	
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	99.999	
150,000 miles	NOX	--	1	--	--	--	--	--	99.999	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125		
Fuel		Gasoline			Test Procedure			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	--	1	--	--	--	--	0	999.999	
120,000 miles	METHANE	--	1	--	--	--	--	--	0.030	
120,000 miles	N2O	--	1	--	--	--	--	--	0.010	
150,000 miles	CO	--	1	--	--	--	--	--	2.1	
150,000 miles	CO-COMP	--	1	--	--	--	--	--	4.2	
150,000 miles	NMOG	--	1	--	--	--	--	--	99.999	
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	0.125	
150,000 miles	NMOG+NOX-COMP	--	1	--	--	--	--	--	0.120	
150,000 miles	NOX	--	1	--	--	--	--	--	99.999	
150,000 miles	PM	--	1	--	--	--	--	--	0.003	

Certification Summary Information Report

Test Group		VGMXV05.5094			Evaporative/Refueling Family			VGMXR01383CC		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	1	--	--	--	--	--	99.9	
150,000 miles	NMOG	--	1	1.03	--	--	--	--	99.999	
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	99.999	
150,000 miles	NOX	--	1	--	--	--	--	--	99.999	
150,000 miles	PM	--	1	--	--	--	--	--	0.006	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125		
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	--	1	--	--	--	--	--	2.1	
4,000 miles	NMOG	--	1	--	--	--	--	--	99.999	
4,000 miles	NMOG+NOX	--	1	--	--	--	1	--	0.250	
4,000 miles	NOX	--	1	--	--	--	--	--	99.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125		
Fuel		Gasoline			Test Procedure			HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	NMOG	--	1	1.03	--	--	--	--	99.999	
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	0.125	
150,000 miles	NOX	--	1	--	--	--	--	--	99.999	

Certification Summary Information Report

Test Group		VGMXV05.5094			Evaporative/Refueling Family			VGMXR01383CC		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125		
Fuel		Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	1	--	--	--	--	--	99.9	
150,000 miles	NMOG	--	1	1.03	--	--	--	--	99.999	
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	99.999	
150,000 miles	NOX	--	1	--	--	--	--	--	99.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125		
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	--	1	--	--	--	--	--	2.1	
150,000 miles	CO-COMP	--	1	--	--	--	--	--	4.2	
150,000 miles	NMOG	--	1	--	--	--	--	--	99.999	
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	0.125	
150,000 miles	NMOG+NOX-COMP	--	1	--	--	--	--	--	0.120	
150,000 miles	NOX	--	1	--	--	--	--	--	99.999	
150,000 miles	PM	--	1	--	--	--	--	--	0.003	

Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125		
Fuel		Gasoline			Test Procedure			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	999.999	
150,000 miles	NMOG	--	1	1.03	--	--	--	--	99.999	
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	0.125	
150,000 miles	NOX	--	1	--	--	--	--	--	99.999	

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 125
Fuel	Gasoline	Test Procedure	Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	1	--	--	--	--	--	10.0
120,000 miles	HC-NM	--	1	--	--	--	--	--	0.3

Cert Region	Federal	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	Federal Tier 3 Bin 125
Fuel	Gasoline	Test Procedure	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	--	--	--	--	--	99.9
150,000 miles	NMOG	--	1	1.03	--	--	--	--	99.999
150,000 miles	NMOG+NOX	--	1	--	--	--	1	--	99.999
150,000 miles	NOX	--	1	--	--	--	--	--	99.999
150,000 miles	PM	--	1	--	--	--	--	--	0.006

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Cert
Vehicle Class	LDV/Passenger Car	Standard Level	California LEV-III ULEV125
Fuel	Gasoline	Test Procedure	Cold CO

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	1	--	--	--	--	--	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family	VGMXR01383CC	Cert Region	California + CAA Section 177 states California LEV-III 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	--	0.020	0.000

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC		
Evaporative/Refueling Family	VGMXR01383CC	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Cert	Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0000
Evaporative/Refueling Family	VGMXR01383CC	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000
Evaporative/Refueling Family	VGMXR01383CC	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0000
Evaporative/Refueling Family	VGMXR01383CC	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Cert	Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0000
Evaporative/Refueling Family	VGMXR01383CC	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Cert	Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.000

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC		
Evaporative/Refueling Family	VGMXR01383CC	Cert Region	Federal		
Cert/In-Use Code	Cert	Standard Level	Federal Tier 3 Evap		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0000
Evaporative/Refueling Family	VGMXR01383CC	Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
Cert/In-Use Code	Cert	Standard Level			
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0

Certification Summary Information Report

Test Group	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
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		VGMXV05.5094	Evaporative/Refueling Family		VGMXR01383CC
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		VGMXV05.5094	Evaporative/Refueling Family		VGMXR01383CC
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	VGMXV05.5094	Evaporative/Refueling Family	VGMXR01383CC
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	2
EC Derivatives		
Test Group	VGMXV05.5094	VGMXV05.5094
Durability Group	VGMXGPGNNB54	VGMXGPGNNB54
Engine RPO	LT6	LT7
Disp, liters	5.5	5.5
Trans RPO	M1M	M1K
Trans Type	T8	T8
Product Code	--	--
Emission RPO	NL2	NL2
Emissions Category	LEV125/BIN125	LEV125/BIN125
Vehicle Type	CAR	CAR
Regulatory Agencies	C	C
Sales Area	FA/CA	FA/CA
Design Altitude	Both	Both
A/C Equipped	Yes	Yes
Driver Select Device	Tour,Sprt,Trk,Wntr,Tap	Tour,Sprt,Trk,Wntr,Tap
Police Only	No	No
Horsepower @ RPM	670 @ 8400	1064 @ 7000
Torque @ RPM	460 @ 6300	828 @ 6000
Emission Ctrl Sys	DFI/2WR-HO2S/2TWC/2HO2S	2TC/CAC/DFI/2WR-HO2S/2TWC/2HO2S
TapUp/TapDown	Yes	Yes
Active Fuel Management Description	Non AFM	Non AFM
	LT6/ M1M	LT7/ M1K

TRANSMISSION INFORMATION

Test Group ID	VGMXV05.5094	VGMXV05.5094
Transmission Code	1	2
Transmission RPO	M1M	M1K
Transmission Type	T8	T8
Drive Gear Ratios	2.91,1.76,1.22,0.88,0.65,0.51,0.4,0.33	2.905,1.759,1.22,0.878,0.653,0.508,0.397,0.32
Chain Drive Ratio	NA	9 NA
Shift Calibrations	Computer Controlled	Computer Controlled
Torque Converter Diameter	NA	NA
Torque Converter Stall Torque Ratio	NA	NA
Torque Converter Lockup RPM'S	Computer Controlled	Computer Controlled
Torque Converter Stall Torque Speed	NA	NA
Multimode Feature - # of Modes	5	5
Shift Indicator Light	NO	NO
Description	M1M	M1K
TapUp/TapDown	YES	YES

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.

Enhanced Dyno Mode:

Make sure the steering wheel is straight. With the key OFF, apply more than 5% but less than 20% brake pedal pressure and hold 100% accelerator pedal. Open and close the driver's door 5 times within 10 seconds. Then turn the key ON and verify that the DIC displays the message: "Chassis dyno mode is active"

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:

All testing for this test group must use a road speed fan on all regulated test cycles, as allowed by the regulations. Prime one Fan was used 12 inches Fan Height (From floor to bottom edge of fan and 12 inches Fan Distance from Vehicle).

SPECIAL TEST INSTRUCTIONS (CONT.)

Canister Loading:

Most General Motors vehicles have a service port for the evaporative system. For vehicles that are not equipped with a service port, an evaporative service access port tool must be utilized. The evaporative service access port tool should be installed between the purge solenoid and the purge line from the evaporative canister. Purging and loading of the evaporative emissions canister must be done through this service port or service port tool. The service port and service port tool consist of a Schrader valve which is in series with the purge line. It can be identified by its green cap.

Fuel System Leak Test Procedure:

For evaporative emission families that are certified to Tier 3 and LEV 3 evaporative emission requirements, a fuel system leak test may need to be conducted. To conduct this testing, the outlet of the canister should be sealed. The fuel system is then pressurized by applying nitrogen through the service port. Service port details are outlined in the canister loading instructions.

Evaporative Emissions Testing:

For evaporative emissions testing conducted with test fuels that contain ethanol, General Motors utilizes a photo acoustic infrared analyzer to measure evaporative emissions.

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 system 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 emissions 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.

ENGINE STARTING INSTRUCTIONS

Warm or Cold Engine

For vehicles using a key, do not press down on the accelerator pedal. With your foot off the pedal, crank the engine by turning the ignition key to "Start". Release the key when the engine starts.

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

<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	562	563	616	665	15	25	40	45	50	55	60	NA	NA
2	562	563	584	666	15	25	40	45	50	55	60	NA	NA

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

NA – Not Applicable



March 4, 2026

VP016

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/
Evaporative Family VGMXV05.5094/VGMXR01383CC

General Motors requests that the EPA issue a certificate of conformity for the subject test group/evaporative family. 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,

Omar Aljabali

Omar Aljabali
Total Certification Engineer
Compliance & Certification

OA/cc

general motors

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



April 7, 2026

VP017

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/Evaporative Family
VGMXV05.5094/VGMXR01383CC

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,

Omar Aljabali

Omar Aljabali
Total Certification Engineer
Compliance & Certification

OA/ks

EMISSION DATA RATIOS (GASOLINE)

	<u>Data Ratios</u>
NMHC (G/MI) *1	NA
NMOG (G/MI) *2	NA
HCHO (G/MI) *4	NA
NMOG:NMHC *2 (E0 TIER2)	1.04
NMOG:NMHC *3 (E10 LEV3)	1.10 (Cold Start Tests)
NMOG:NMHC *5 (E10 TIER3)	See Below
NMOG:NMHC *3 (E10 LEV3)	1.03 (Hot Start Tests)
HCHO:NMHC *2	NA

*1 NMHC includes methane response factor.

*2 Effective with the 2004 model year, both EPA and CARB have, through regulatory change, established an industry 1.04 NMHC to NMOG factor which can be used for cert testing for all gasoline tests (does not apply to alcohol fuels).

*3 Effective with LEV3 regulations, 1.10 NMHC to NMOG factor (cold start tests) and 1.03 NMHC to NMOG factor (hot start tests) can be used for cert testing for all gasoline tests (does not apply to alcohol fuels).

*4 HCHO requirements will now be met by a compliance statement for both EPA and CARB (does not apply to alcohol fuels).

*5 Effective with TIER3 regulations, the NMHC to NMOG conversion ratio for cold start tests is a calculation based 1066.635 which is represented by the following:

$$e_{\text{NMOGcomp}} = e_{\text{NMHCcomp}} * (1.0302 + (0.0071 * VP_{\text{EtOH}})) \quad \{\text{Eq. 1066.635-3}\}$$

*** VEHICLE INFORMATION ***

Model Year	2027	Certifying Agent	GM
Test Vehicle	551TYS2544	GM Config	000
		Run Date	03/05/2026 13:31:26

VEHICLE NO:	551TYS2544	CONFIGURATION NO:	000	EPA VERSION NO:	00
				ORIGINAL CERT YEAR:	2027
ENG FAM/TEST GRP:	VGMXV05.5094	ENGINE CODE:	1		
EVAP FAMILY:	VGMXR01383CC	EVAP CODE:	100		
TEST PURPOSE:	DATA	DISPL:	5.5	SALES LOC:	BOTH
VEH TYPE: FED=	PC	CAL=	PC	EMIS CATEGORY: FED=	BIN125 PM CAL= ULEV125 PM

DURA GRP:	VGMXGPGNNB54	DURA VEH NO:		DURA CONFIG:	
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FUEL METER:	GDI SPARK IGN DIR INJ	BOOST TYPE:		VALVES PER CYL:	2
-------------	-----------------------	-------------	--	-----------------	---

TRANS: TYPE=	T8	CODE= 1	MODE= NORMAL	SIL EQUIPPED:	No	SIL VERSION:	N/A
SHIFT SCHEDULE:	N/A	SHIFT SCHED NO:					
EVAP CANISTER SIZE(L):	2.17						
TANK CAPACITY (GAL): PRIM=	18.6	AUX=				PRIMARY FUEL:	GAS
PREMIUM FUEL RECOM'D:	N	USAGE: F=	FA	C=	CA		
DYNAMOMETER DRIVE AXLE:	R						
TIRE PRESS(PSI): FRT=	30	REAR=	30	A/C EQ:	Y		
68d ROADLOAD: F0=	38.18	F1= 0.7301		F2= 0.02372		TRLHP 68d:	17.9
20d ROADLOAD: F0=	42	F1= 0.8031		F2= 0.02609		TRLHP 20d:	19.7

WEIGHTS (LBS):				TIRES:			
ETW: 4250	EPA CURB: 3846	GVWR:		VENDOR:	MIC	SIZE:	275/30ZR20, 345/25ZR21
				TREAD TYPE:	RF4		

DESIGN:	CURB WEIGHT/TEST WT CLASS TYPE	DRIVE AXLE
	3846/LVW	2495

REP VEH MODEL:	1YH67	FIN DR RATIO:	5.56	N/V:	22.9	ENG RPO:	LT6
ACTUAL MODEL NO:	1YH67						
RATED HP:	670	TCC:	Y				
OVERDRIVE:	Y	CREEPER:	N	PS:	YES	PB:	YES
MODE LINK CONFS:		C/O CONF:		SIL LINK CONF:			
ZERO-MILE ODO:	0	ODO CORR:	1.00				

COMMENTS EDV config tested with 16 psi tires pressure to avoid dyno slip.

*** VEHICLE INFORMATION ***

Model Year	2027	Certifying Agent	GM
Test Vehicle	621LYV2252	GM Config	007
		Run Date	03/10/2026 10:56:13

VEHICLE NO:	621LYV2252	CONFIGURATION NO:	007	EPA VERSION NO:	00
ENG FAM/TEST GRP:	VGMXV05.5094	ENGINE CODE:	2	ORIGINAL CERT YEAR:	2020
EVAP FAMILY:	VGMXR01383CC	EVAP CODE:	100		
TEST PURPOSE:	DATA	DISPL:	5.5	SALES LOC:	BOTH
VEH TYPE: FED=	PC	CAL=	PC	EMIS CATEGORY: FED=	BIN125 PM CAL= ULEV125 PM

DURA GRP:	VGMXGPGNNB54	DURA VEH NO:		DURA CONFIG:	
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FUEL METER:	GDI SPARK IGN DIR INJ	BOOST TYPE:		VALVES PER CYL:	2
-------------	-----------------------	-------------	--	-----------------	---

TRANS: TYPE=	T8	CODE= 2	MODE= NORMAL	SIL EQUIPPED:	No	SIL VERSION:	N/A
SHIFT SCHEDULE:	N/A	SHIFT SCHED NO:					
EVAP CANISTER SIZE(L):	2.17						
TANK CAPACITY (GAL): PRIM=	18.6	AUX=				PRIMARY FUEL:	GAS
PREMIUM FUEL RECOM'D:	Y	USAGE: F=	FA	C=	CA		
DYNAMOMETER DRIVE AXLE:	R						
TIRE PRESS(PSI): FRT=	30	REAR=	30	A/C EQ:	Y		
68d ROADLOAD: F0=	48.59	F1= 0.6472		F2= 0.01893		TRLHP 68d:	17.1
20d ROADLOAD: F0=	53.45	F1= 0.7119		F2= 0.02082		TRLHP 20d:	18.8

WEIGHTS (LBS):				TIRES:			
ETW: 4250	EPA CURB: 3944	GVWR:		VENDOR:	MIC	SIZE:	275/30ZR20, 345/25ZR21
				TREAD TYPE:	RF4		

DESIGN:	CURB WEIGHT/TEST WT CLASS TYPE	DRIVE AXLE
	3944/LVW	2553

REP VEH MODEL:	1YR07	FIN DR RATIO:	5.56	N/V:	22.8	ENG RPO:	LT7
ACTUAL MODEL NO:	1YC67						
RATED HP:	1,064	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

Y2027LT6M1MFE91YH

151

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Jan 12 2026 13:34:31



**VEHICLE EMISSION
CONTROL INFORMATION**



**GENERAL
MOTORS
LLC**

Conforms to Regulations: 2027
U.S. EPA class / stds: LDV / BIN125
California class / stds: PC / ULEV125
Group: VGMXV05.5094 5.5L
Evap: VGMXR01383CC
DFI/2WR-HO2S/2TWC/2HO2S, CA OBD: II

Fuel: Gasoline
Y2027LT6M1MFE91YH
Date: 2601

Y2027LT6M1MNL21YH

151

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**VEHICLE EMISSION
CONTROL INFORMATION**



**GENERAL
MOTORS
LLC**

Conforms to Regulations: 2027
U.S. EPA class / stds: LDV / BIN125
California class / stds: PC / ULEV125
Group: VGMXV05.5094 5.5L
Evap: VGMXR01383CC
DFI/2WR-HO2S/2TWC/2HO2S, CA OBD: II

Fuel: Gasoline
Y2027LT6M1MNL21YH
Date: 2601

Y2027LT7M1KFE91YR

151

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Jan 12 2026 13:34:34



**VEHICLE EMISSION
CONTROL INFORMATION**



**GENERAL
MOTORS
LLC**

Conforms to Regulations: 2027

U.S. EPA class / stds: LDV / BIN125

California class / stds: PC / ULEV125

Group: VGMXV05.5094 5.5L

Evap: VGMXR01383CC

2TC/CAC/DFI/2WR-HO2S/2TWC/2HO2S, CA OBD: II

Fuel: Gasoline

Y2027LT7M1KFE91YR

Date: 2601

Y2027LT7M1KNL21YR

151

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Jan 12 2026 13:34:35



**VEHICLE EMISSION
CONTROL INFORMATION**



**GENERAL
MOTORS
LLC**

Conforms to Regulations: 2027

U.S. EPA class / stds: LDV / BIN125

California class / stds: PC / ULEV125

Group: VGMXV05.5094 5.5L

Evap: VGMXR01383CC

2TC/CAC/DFI/2WR-HO2S/2TWC/2HO2S, CA OBD: II

Fuel: Gasoline

Y2027LT7M1KNL21YR

Date: 2601