

GENERAL MOTORS LLC.

Executive Order: A-006-2338-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
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Pursuant to the authority vested in California Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

					TEST GRO	UP IN	IFOR	MATION					
MODE YEAR	- I TI	EST GROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
2023	PG	MXV06.2094			PC			_	SINGLE FUEL HICLE	GASOLINE			
ı	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TERMEDIATE IN-USE ST			
EXH	/ORVR	EVAP			FTP		SF	TP	FTP	SFTP			
15	0000	150000)	LEV3	ULEV125	LEV	3 CC	MPOSITE	*		PM		
SPE	PECIAL FEATURES & EXHAUST EMISSION CONTROL OBD STATUS (L)						NGINE DISPLACEMENT (L)						
1	DFI	, SC, CAC,	2TWC,	2WR-HO2	2S, 2HO2S			FULL	ALL MODELS				
*			*				Р	ARTIAL	*	5.5, 6.2			
*	* *							TIAL WITH FINES	*				
,		E,	VAPO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	/ INFORMATIO	V			
EVA	P / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	Y EVAP EMISSION STD VEHICLE CLASS			S	SPECIAL FEATURES		
P	GMXR01	103AA	LE	LEV 3 OPTION2 WITH FEL				PC			HCT		
P	GMXR01	.383CC	LI	LEV 3 OPTION2 WITH FEL				PC			HCT		
					EMISSION C	REDIT	INFO	RMATION					
	EDIT FC	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N	ON-P	NMOG CREDIT FOR DOI		R	OPTIONAL EXH. STD FOR WORK TRUCKS			
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAGE	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO		HO/NMHC RATIO	PC+LDT (0-3750 LVW) LDT (3751 LVW-8500 MD		750 LVW) LDT		LDT (3751 LVW-8500		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*	0	.044			0.047		*		

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

BE IT FURTHER RESOLVED:

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

This Executive Order hereby cancels and supersedes Executive Order A-006-2338 dated March 27, 2022.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this 6th day of August 2022.

Robin U. Lang, Chief

Jolin U. Lang

Emissions Certification and Compliance Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

FUEL TYPE

		NMOG+NOx (g/mi)				NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- TIER3 E10 PREM	0.062	0.125	1.1	2.1	*	*	*	4	0.001	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
	FUEL TIPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10 PREM	0.009	0.125			
20°F @ 50K	COLD CO E10 PREMIUM GASOLINE (TIER3)			2.6	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	1	*	*	0.047	1.0	*
@ UL	GASOLINE- TIER3 E10 PREM	STD	*	*	6	*	*	0.063	4.2	*
		BIN						0.120		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE		WHOLE \						
		3DH	S (g/test) (g UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
PGMXR01103AA	GASOLINE- TIER3 E10	0.211	0.300	0.300	0.251	0.300	0.300	0.00	0.05
PGMXR01383CC	GASOLINE- TIER3 E10 PREM	0.265	0.300	0.500	0.233	0.300	0.500	0.00	0.05

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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
		FUEL ONLY EVAP & CANISTER BLEED											
EVAPORATIVE FAMILY	ORVR (g/	FUEL TYPE		3DHS R (g/test	2DHS RIG TEST (g/test) @ UL			BLEED CANISTER TEST (g/test) @ 4K					
	FUEL TYPE	CERT	STD			CERT	STD	CER	Т	STD	CERT	STD	
PGMXR01103AA	GASOLINE- TIER3 E10	0.05	0.20	GASOLINE- TIER3 E10		*	*	*		*	0.009	0.020	
PGMXR01383CC	GASOLINE- TIER3 E10 PREM	0.04	0.20	GASOLINE- TIER3 E10 PREM		*	*	*		*	0.007	0.020	
l	EFFECTIVE	LEAK D	IAMET	ER STA	NDARI	D AND CE	RTIFICA	TION L	.EV	EL (INCH	IES)		
EVAPORATIVE FAMILY LEAK FAMIL			LY CERT				STD						
PGMXR01103AA PGMXR011			1103AA	-LK1	*				0.02				
PGMXR0138	зсс	PGMXR0	1383CC	-LK1	*				0.02				

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: _DT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi automatic transmission: CV: continuously variable transmission: SCV: selectable continuously variable transmission: AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty; N = no credits, Y = credits, S = credits for some/select models

2023 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CADILLAC	CT5 V	PC	6.2	SA10	PGMXR01103AA	1	F
CADILLAC	CT5 V	PC	6.2	М6	PGMXR01103AA	1	F
CHEVROLET	CORVETTE Z06	PC	5.5	SA8	PGMXR01383CC	1	F
CHEVROLET	CORVETTE Z06 CARBON AERO	PC	5.5	SA8	PGMXR01383CC	1	F