

GENERAL MOTORS LLC.

Executive Order: A-006-2274

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 GROUP INFORMATION												
MODE		TEST GROUP VEHIC			LE CLASS(ES)			FUEL CATEGORY			FUEL TYPE	
2021	. MG	MXV02.0041			PC DE				DICATED SINGLE FUEL VEHICLE		GASOLINE	
USEFUL LIFE (miles) V				VEH	HICLE EMISSION CATEGORY			GORY	INTERIM / IN	TER	RMEDIATE IN-USE STD	
EXH/ORVR EVAP					FTP S			TP FTP			SFTP	
150000 150000)	LEV3	ULEV50 LEV 3 COMPO			OMPOSITE	*		PM	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L		OBD S	TATUS	E	ENGINE DISPLACEMENT (L)		
1	DFI, TC, CAC, TWC, WR-HO2S, HO2S							FULL	ALL MODELS			
*	*						F	ARTIAL	*		2.0	
*	*						PAR	TIAL WITH	*			
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO					COPY			VAP EMISSION STD VEHICLE CLASS		SPECIAL FEATURES		
MGMXR01103AA LEV 3 OP				EV 3 OPTI	ON2 WITH FEL			PC			HCT	
	EMISSION CREDIT INFORMATION											
CDEDIT FOR EVTENDED				EDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR		R	OPTIONAL EXH. STD FOR WORK TRUCKS		
N				N				N		N		
NMOG AND FLEET AVERAGE INFORMATION												
NMOG RAF					NMOG+NOX FLEET STO PC+LDT (0-3750 LVW) (g/mi)			V) LDT	+NOX FLEET S (3751 LVW-850(R) + MDPV (g/m)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)	
*	*	1.10		*	0.058			0.065			*	

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.

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

Executed on this 2474 day of June 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



FUEL TYPE

GASOLTNE-

TIER3 E10

MGMXR01103AA

CERT

0.05

STD

0.20

GASOLINE-

TIER3 E10

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CERT

0.009

STD

0.020

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 djurnal+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+NO_X CO NOx **HCHO** PM (g/mi) (g/mi) (q/mi) (ma/mi) (g/mi) CERT STD CERT STD CERT STD CERT STD CERT STD FTP@50K GASOLINE-FTP@UL 0.029 0.050 0.3 1.7 4 0.002 0.003 TIER3 E10 50°F @4K NMOG+NOx (g/mi) CO (g/mi) **FUEL TYPE** CERT STD CERT STD HWFET @ 50K HWFET @ UL GASOLINE-TIER3 E10 0.027 0.050 COLD CO E10 REGULAR GASOLINE (TIER3) 1.7 20°F @ 50K 10.0 SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS **US06** SC03 COMPOSITE **FUEL TYPE** NMOG+NOx CO PM NMOG+NO_x CO NMOG+NOx CO PM (g/mi) (mg/mi) (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) CERT @ 4K * STD * × 1.7 * 0.035 CERT 1 * GASOLINE-* 6 + 0.077 4.2 STD @ UL TIER3 E10 0.070 BIN WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS WHOLE VEHICLE EVAPORATIVE TESTING RL (g/mi) @ UL **EVAPORATIVE FUEL TYPE** 3DHS (g/test) @ UL 2DHS (g/test) @ UL **FAMILY** STD CERT STD FEL CERT STD FEL CERT GASOLINE-0.251 0.300 0.300 0.00 0.05 0.211 0.300 0.300 MGMXR01103AA TIER3 E10 ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS **FUEL ONLY EVAP & CANISTER BLEED** 3DHS RIG TEST 2DHS RIG TEST **BLEED CANISTER** ORVR (g/gallon) @ UL **EVAPORATIVE** TEST (g/test) @ 4K (g/test) @ UL (g/test) @ UL **FAMILY FUEL TYPE**

CERT

STD

*

CERT

*

STD



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)							
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD				
MGMXR01103AA	MGMXR01103AA-LK1	*	0.02				

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1; LDT<6000#GVWR.0-3750#LVW: LDT2: LDT<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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CADILLAC	CT4	PC	2.0	SA8	MGMXR01103AA	1	F
CADILLAC	CT4 AWD	PC	2.0	SA8	MGMXR01103AA	1	F
CADILLAC	CT5	PC	2.0	SA10	MGMXR01103AA	1	F
CADILLAC	CT5 AWD	PC	2.0	SA10	MGMXR01103AA	1	F