

GENERAL MOTORS LLC.

Executive Order: A-006-2277

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 CDC	IIID II	JEOR	MATION		-			
TEST GROUP INFORMATION MODEL													
YEA	I T	EST GROUP	VEHICLE CLASS(ES)				FUEL CATEGORY				FUEL TYPE		
202	021 MGMXT01.5090 LDT2								SINGLE FUEL HICLE		GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISS							I CATEGORY INTERIM / INT			TERN	TERMEDIATE IN-USE STD		
EX	H/ORVR	EVAP			FTP SFTP			TP	FTP		SFTP		
1	50000	150000	LEV3	SULEV30	LEV	3 C	OMPOSITE	*		PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS	EN	ENGINE DISPLACEMENT (L)		
1	1 DFI, TC, CAC, TWC, HO2S(2)							FULL	ALL MODELS				
*	* *							PARTIAL	*	1.5			
*						PAR	RTIAL WITH FINES	*					
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EV	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR								AP EMISSION STD /EHICLE CLASS SPECIAL FEATUR				
	MGMXR009537C LEV 3 OPTION2 WITH FEL							LI	LDT2 HCT				
				1	EMISSION CI	REDIT	INFO	ORMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-I ZERO-EVAP							ZEV	NMOG C	NMOG CREDIT FOR DOR OPTIONAL EXH. FOR WORK TRU				
	N N							N N					
				NMOG	AND FLEET	AVE	RAG	E INFORMA	TION				
NMOG RAF	NM()(=/NM)=(*)					0-375		V) LDT					
*	*	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 22 day of July 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



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							A	TTAC	CHM	ENT								
	EXH											D CERT				ELS	3	
		EXH	AUST	EMISS	ION S	STAND	ARDS A	ND CEF	RTIFIC	ATION	LEVELS	(FTP, HW	/FET	, 50°F, 20)°F)			
	FUEL TYPE			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														
				NMOG+NOx (g/mi)		CO (g/mi)			NOx (g/mi)		HCH (mg/r		100		PM (g/mi)			
				CERT	Г	STD	CER	T ST	D	CERT	STD	CER	Т	STD	CERT		STD	
FTP@50	0K	*		*		*	*	*		*	*	*		*	*		*	
	GASOLINE- TIER3 E10			0.01	3 (0.030	0.4			*	*	*		4	0.0	02	0.003	
50°F @4	60°F @4K * *			*		*	*	*		*	*	*						
FUEL T						EL TY	PE				NMOG+NOx (g/mi)				CO (g/mi			
										1	RT		STD		CERT		STD	
HWFET @ 50K					* * *													
HWFET @ UL GASOLINE-TI						E-TIE	ER3 E10		0.001			0.030						
20°F @ 50K COLD CO E10 REGULAR													1.1			12.5		
			S	FTP E	XHAL	JST EI		STAND	ARDS	AND C		ATION LE	VEL					
				NMOG+NOx CO PM						SC03 NMOG+NOx CO NMOG-					COMPOSITE G+NOx CO PM			
	FUEL TYPE			NMOG+NOx (g/mi)			CO (g/mi)	1	(mg/mi)		(g/mi)		NMOG+NOx (g/mi)		1	/mi)	PM (mg/mi)	
@ 4K	4K *		CERT				*				*	*						
			STD			_	*			*		*	0.010		+-			
	CROOK	ASOLINE- IER3 E10 STE		CERT				*			*		*	0.010		10	. 7	*
@ UL							* 6		6		*	*		0.077		. 2	*	
			BIN										_	0.050				
		WH	OLE V	EHICL	EEV							ERTIFICA	ATIO	N LEVEL	.S			
EVAD/	ORATIV	F		WHOLE VEHICLE EVAPORATIVE TESTING								RL (g/mi) @ UL			UL			
1	MILY	1 1-111-1 1					g/test) @ UL			2DHS (g/test)						,		
			63.605.535		CER	CERT STD		FEL CE		RT STD		FEL		CERT			STD	
MGMXR009537C TIE		IER3	E10			.400						0.375 0.0						
0	RVR / F	UEL (ONLY /	CANI	STER	BLEE	D EVAP	ORATIV	-		The second second second second	RDS AND				EVE	LS	
	ORATIVI	E	ORVR	(g/gallon) @ UL			Fire	3D			JEL ONLY EVAI HS RIG TEST g/test) @ UL		2DHS RIG (g/test) @		BLEE	ED CANISTER T (g/test) @ 4K		
FA	MILY	FI	FUEL TYPE C			STD	TD FUEL T				RT STD		STD			CERT S		
MGMXR	009537	GA	SOLIN ER3 E	E-	.02	0.20	GAS	OLINE- R3 E10	+	*	*	*			* 0.004		0.020	



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EFFECTIV	/E LEAK DIAMETER STA	NDARD AND CERTIFICATION L	EVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
MGMXR009537C	MGMXR009537C-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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	OBD
CHEVROLET	EQUINOX AWD	LDT2	1.5	A6	MGMXR009537C	1	F
CHEVROLET	EQUINOX FWD	LDT2	1.5	A6	MGMXR009537C	1	F
GMC	TERRAIN AWD	LDT2	1.5	A9	MGMXR009537C	1	F
GMC	TERRAIN FWD	LDT2	1.5	A9	MGMXR009537C	1	F