

GENERAL MOTORS LLC.

Executive Order: A-006-2200 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

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-14-012;

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	- 1	EST GROUP		VEHIC	LE CLASS(E	S)		FUEL (CATEGORY		FUEL TYPE		
2020	LG	MXT05.3384		-	LDT4	LDT4			SINGLE FUEL	FUEL GASOLINI			
Ţ	JSEFUL	. LIFE (miles)		VEH	IICLE EMISS	ION (CATE	GORY	INTERIM / IN	TE	RMEDIATE IN-USE STD		
EXH	/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	150000		LEV3	ULEV125	LEV	3 C	OMPOSITE	*		PM		
SPE	CIAL FE	ATURES & EX	HAUS TEMS		ON CONTRO	L		OBD S	TATUS		ENGINE DISPLACEMENT (L)		
1		DFI, 2TWC	, 2но	D2S(2),	TWC			FULL	*				
*		*	*				F	PARTIAL	ALL MODELS		5.3		
*			*				PAF	RTIAL WITH	*				
		E۱	'APOI	RATIVE &	REFUELING	(EVA	AP/OF	RVR) FAMIL	Y INFORMATIO	N			
EVA	P / ORV	RFAMILY	EVA	PORATIVE	E STD CATE	GORY	′		SSION STD E CLASS		SPECIAL FEATURES		
L	GMXR01	6150A	LE	V 3 OPTI	ON2 WITH	N2 WITH FEL LD			DT4		HCT		
L	GMXR02	1250B	LE	V 3 OPTI	ON2 WITH	FEL		L	DT4		HCT		
				-	EMISSION C	REDI	TINE	ORMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP		ZEV	NMOG C	REDIT FOR DO	R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	Γ AVE	RAG	E INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO NMOG+NOX FL PC+LDT (0-37: (g/mi)			0-375							
*	*	1.10		*	0	.065			0.074		*		
Soo the	See the Attachment for Vehicle Models, Evanorative Family, Engine Displacement, Emission Control Systems, Phase												

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 at El Monte, California on this _______ day of May 2019.

Allen Lyons, Chief

Emissions Compliance, Automotive Regulations and Science 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))
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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

			s+NOx mi)		O mi)	N((g/		1 2 2	HO /mi)	P (g/	M mi)
70 1-1		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- TIER3 E10	0.031	0.125	0.5	2.1	*	*	*	4	0.002	0.003
50°F @4K	*	*	*	*	*	*	*	*	*	A Trapito of	ALCOHOLD DE

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
7. 2. 1. 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	FUEL TIPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*		Section of the St.	
HWFET @ UL	GASOLINE-TIER3 E10	0.004	0.125			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)		e delegaj propinski se Svenjen senerali Albe	1.5	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COMPOSITE		
	FUEL TYPE	eritali.	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	*	*		*	*		Granica Set al 177	1. Add 15. F.
		STD	*	*		*	*		-1814 163 - 24	7470 Y
		CERT	*	*	. 1	*	*	0.027	0.4	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.083	4.2	*
		BIN		Something	11. 0m 30.000 K	William Programme		0.120	第 章	140

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		WHOLE \						
EVAPORATIVE FAMILY		3DHS (g/test) @ UL			2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
LGMXR016150A	GASOLINE- TIER3 E10	0.383	0.500	0.500	0.376	0.500	0.500	0.00	0.05
LGMXR021250B	GASOLINE- TIER3 E10	0.470	0.500	0.525	0.354	0.500	0.525	0.00	0.05



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ORVR / FUI	ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS											
		.11		FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL		FUEL TYPE	3DHS R (g/test			IG TEST) @ UL	BLEED CANISTER TEST (g/test) @ 4K				
8 7	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
LGMXR016150A	GASOLINE- TIER3 E10	0.01	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.007	0.020		
LGMXR021250B GASOLINE- TIER3 E10 0.03 0.20		GASOLINE- TIER3 E10	*	*	*	*	0.010	0.020				
	FFECTIVE	LEAK D	IAMET	ER STANDARI	D AND CE	RTIFICA	TION LEV	EL (INCH	IES)			

EFFECTIVE LEAK DIAINETER STANDARD AND CERTIFICATION LEVEL (INCIDES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
LGMXR021250B	LGMXR021250B-LK1	*	0.02						
LGMXR016150A	LGMXR016150A-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; 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; 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

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CHEVROLET	C1500 SUBURBAN 2WD	LDT4	5.3	A6	LGMXR021250B	1	P
CHEVROLET	C1500 TAHOE 2WD	LDT4	5.3	A6	LGMXR016150A	1	P
CHEVROLET	K1500 SUBURBAN 4WD	LDT4	5.3	A6	LGMXR021250B	1	P
CHEVROLET	K1500 TAHOE 4WD	LDT4	5.3	A6	LGMXR016150A	1	P
GMC	C1500 YUKON 2WD	LDT4	5.3	A6	LGMXR016150A	1	P
GMC	C1500 YUKON XL 2WD	LDT4	5.3	A 6	LGMXR021250B	1	P
GMC	K1500 YUKON 4WD	LDT4	5.3	A6	LGMXR016150A	1	P
GMC	K1500 YUKON XL 4WD	LDT4	5.3	A6	LGMXR021250B	1	P