

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		ST GROUP		VEHICI	_E CLASS(E	S)		FUEL C	ATEGORY		FUEL TYPE	
2020) LG	MXV02.7105			PC			DEDICATED SINGLE FUEL VEHICLE			GASOLINE	
	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATEC	ORY	INTERIM / IN	TERM	IEDIATE IN-USE STD	
EXH	I/ORVR	EVAP			FTP		SF	rp	FTP		SFTP	
15	50000	150000)	LEV3	ULEV50	LEV	3 CO	MPOSITE	PM		РМ	
SPE	ECIAL FE	ATURES & EX	HAU		ON CONTRO	L.		OBD S	TATUS	E	IGINE DISPLACEMENT	
1	т	C, CAC, DFI,	WR-	HO2S, TW	C, HO2S			FULL	*	的情况实		
*			*			PROJECT AND	P	ARTIAL	ALL MODELS	1116-2012	2.7	
*			*					TIAL WITH FINES	*			
		E	VAPO	DRATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	Y INFORMATIO	N		
EVA	AP / ORV	R FAMILY	EV	APORATIVE	E STD CATE	GORY		EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES	
	LGMXR01	103AA	I	LEV 3 OPTION2 WITH FEL				PC			нст	
				E	EMISSION C	REDIT	INFC	RMATION				
	REDIT FC	X FLEET AVE. R EXTENDED RANTY			EDIT FOR N ZERO-EVAP		ZEV	NMOG C	REDIT FOR DO	R	OPTIONAL EXH. STD FOR WORK TRUCKS	
		N			N				N		N	
				NMOG	AND FLEE	T AVE	RAGE	INFORMA	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	нс	HO/NMHC RATIO	NMOG+NO PC+LDT ((/) LDT	+NOX FLEET S (3751 LVW-850 R) + MDPV (g/m	0	IMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)	
*	*	1.10		*	C	.065			0.074		*	

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.)



GENERAL MOTORS LLC.

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 2574 day of October 2019.

Allen Eyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

GASOLINE-

TIER3 E10

STD

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@ UL

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

	Alexandra and a second												
					G+NOx mi)	-	:O /mi)	NC (g/r			HCHO mg/mi)	PI (g/r	
				CERT	STD	CERT	STD	CERT	STD	CER	T STD	CERT	STD
FTP@50	ж	*		*	*	*	*	*	*	*	*	*	*
FTP@U		SOLIN ER3 E PREM		0.025	0.050	0.5	1.7	*	*	*	4	0.001	0.003
50°F @4	ŧĸ	*		*	*	*	*	*	*	*	*		
								NN	IOG+N	Ox (g/mi)		CO (g/mi)	
					FUEL TYF	°E		CEI	RT	STD	CERT	-	STD
HWFET	Г @ 50K				*			*		*			
HWFE	T @ UL		Ģ	ASOLIN	E-TIER3	E10 PRE	M	0.0	03	0.050			
20°F (@ 50K	cc	DLD CO	E10 PF	REMIUM G	ASOLINE	(TIER3)				2.6		10.0
			S	FTP EXH	AUST EN	ISSION S	TANDARDS	AND CE	ERTIFIC	ATION L	EVELS		
						US06			SC03		CO	MPOSITE	
	FUEL	TYPE			S+NOx mi)	CO (g/mi)	PM (mg/mi)	NMOG (g/r		CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*		CERT	,	*	*		*	r	*			
-			STD	,	*	*		*	ſ	*			
			CERT		*	*	1	*	r	*	0.020	0.5	*

 PREM
 BIN
 0.070

 WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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0.083

4.2

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WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE							
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) (@ UL	2D	HS (g/test)	@ UL	F	RL (g/n	ni) @ UL
		CERT	STD	FEL	CERT	STD	FEL	CE	RT	STD
LGMXR01103AA	GASOLINE- TIER3 E10	0.211	0.300	0.300	0.251	0.300	0.300	0.	00	0.05
ORVR / FUI	EL ONLY / CANI	STER BL	EED EVAP	ORATIVE	EEMISSION	N STANDAF	RDS AND CE	RTIFICA	ATION	LEVELS
	FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE	ORVR (g/gal	lon) @ U	L		3DHS R	IG TEST	2DHS RIG	TEST	BLEE	D CANISTER

EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL		FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K		
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD
 LGMXR01103AA	GASOLINE- TIER3 E10	0.05	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.009	0.020

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A	C	Δ	1	1	F	0	R	N	IA
11-th	A 1 D			5	1	0.00	13	00	
W W	AIN	KK	23	Q	U	ACE	5	80	ARD

EFFECTIN	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY LEAK FAMILY CERT STD											
LGMXR01103AA	LGMXR01103AA-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

2020 MODEL	YEAR:	VEHICLE	MODELS	INFORMATION
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MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CADILLAC	CT4	PC	2.7	SA10	LGMXR01103AA	1	P
CADILLAC	CT4 AWD	PC	2.7	SA10	LGMXR01103AA	1	P
CADILLAC	CT4 V	PC	2.7	SA10	LGMXR01103AA	1	P
CADILLAC	CT4 V AWD	PC	2.7	SA10	LGMXR01103AA	1	P