

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	FOR	NOITAN					
MOD YEA		TEST GF	ROUP		VEHICI	_E CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
202	0 1	.GMXV04	.2088		PC					SINGLE FUEL HICLE		GASOLINE		
	USEFL	JL LIFE ((miles)	1000	VEH	ICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TER	MEDIATE IN-USE STD		
EX	H/ORVF	र	EVAP	1000		FTP		SF	TP	FTP		SFTP		
1	50000		150000		LEV3	ULEV125	LEV	3 CC	MPOSITE	PM		PM		
SP	ECIAL F	EATUR		IAUS TEMS		ON CONTRO	L		OBD S	TATUS	E	NGINE DISPLACEMENT (L)		
1	DFI, 2CAC, 2TC, 2WR-HO2S, 2TWC, 2HO2S FULL *													
*	* *							P	ARTIAL	*	and the second	4.2		
*	* *								TIAL WITH	ALL MODELS				
			EV	APOF	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						GORY	,	EVAP EMISSION STD VEHICLE CLASS SP			SPECIAL FEATURES			
LGMXR0112835 I					LEV 2			PC			HCT			
					E	EMISSION CI	REDIT	INFC	RMATION					
	NMOG+NOX FLEET AVE. NMOG CRED					EDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
		N				N		N				N		
					NMOG	AND FLEET	T AVE	RAG	E INFORMA	TION				
NMOO RAF	G CH4 RAF	NMO	FTP G/NMHC ATIO		IO/NMHC RATIO	NMOG+NO PC+LDT ((g			V) LDT	+NOX FLEET S (3751 LVW-850 R) + MDPV (g/m	D	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1	L.10		*	0	0.065			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).

BE IT FURTHER RESOLVED:

The vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models has been determined to have three (3) deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of twenty five dollars (\$25) per vehicle for the third deficiency in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2020 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

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 25^{4} day of November 2019.

Allen Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

GENERAL MOTORS LLC. Executive Order: A-006-2234 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

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

			· – L															
					10G+N (g/mi)	Ox		CO (g/mi)			NOx g/mi)		HCH(mg/m			Pľ (g/r		
1999				CER	т	STD	CER	T STI	D	CERT	STD	CER	г	STD	CEF	۲۲	STD	
FTP@5	ок	*		*		*	*	*		*	*	*		*	*		*	
FTP@l	JL TIE	OLIN R3 E PREM		0.06	5 0	.125	0.3	2.3	1	*	*	*		4	0.0	01	0.003	
50°F @	4K	*		*		*	*	*		*	*	*		*			and a start of the	
							_			1	MOG+N	Dx (g/mi)			CO (g	j/mi)		
				381 1	FUI	EL TYP	=			С	ERT	STD		CER	Т		STD	
HWFE	T @ 50K					*					*	*	1421				ne grenne grant gra	
HWFE	T @ UL		C	GASOI	LINE-7	TIER3	E10 PI	REM		0	.004	0.125				1121	all and a second se Second second	
20°F	@ 50K	CC						E (TIEF		and the second second	til standardar av	a tintin	an a	1.0)		10.0	
			S	FTP E	EXHAL			STAND	ARDS	AND	CERTIFIC	ATION LE	EVEL	S		1. j	1	
							US06			SC03					COMPOS			
	FUEL T			lOG+NOx (g/mi)				M NM g/mi))G+NOx g/mi)	CO (g/mi)		NMOG+NOx (g/mi)		;O ′mi)	PM (mg/mi)		
@ 4K	*	*			*		*			*		*						
e			STD		*		*				*	*						
		ASOLINE- TIER3 E10 PREM			*		*	1	2		*	*	C	0.041		. 4	*	
@ UL	TIER3				*		*		6		*	*	c	0.083		. 2	*	
			BIN										C	0.120				
		WH	OLE V	EHIC	LE EV	APORA	TIVE E	MISSION	STA	NDAR	DS AND C	ERTIFIC	ATIO	N LEVE	LS			
						W	IOLE V	/EHICLE	EVAF	ORAT	IVE TEST	ING						
EVAPORATIVE FAMILY				E 3DHS (g/test) @ UL				2DHS (g/test) (@ UL		RL (g/mi) @		UL			
				CERT		STD FEL		CE	RT	STD	FEL	-	CERT		STD			
LGMXF	R0112835	GASOLINE- TIER3 E10		0.2	3 0	. 50	*	0.	21	0.65	*		0.00		0.05			
(ORVR / F	JEL (ONLY /	CAN	ISTER	BLEED	EVAP	ORATIVI	EEMI	SSION	STANDA	RDS AND	CEF	RTIFICA	TION	EVE	ELS	
									F	UEL O	NLY EVA	P & CAN	STE	R BLEE	D			
			ORVR	R (g/gallon) @ UL			FUEL TYPE		100,000	3DHS RIG TEST (g/test) @ UL		2DHS RIG T (g/test) @					CANISTER g/test) @ 4K	
		FU	IEL TY	PE	CERT	STD	1			ERT	STD	CERT		STD	CER		STD	
LGMXI	R011283		SOLIN ER3 E		0.01	0.20		*		*	*	*		*	*	-	*	

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EFFECTIV	E LEAK DIAMETER	STA	NDARD AND CER	TIFICATION L	EVEL (INCHES)		
EVAPORATIVE FAMILY	LEAK FAMILY		CERT		STD		
*	*		*		*		
LDT<6000#GVWR,3751-5750 8500#ALVW; MDV: medium-o duty passenger vehicle; HDV: emission limit; GVWR: gross v ULEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; H SCRC/SCR-N or SCRC-NH3: continuous/periodic trap oxidi: heated/oxygen sensor; WR-H RDQS: reductant quality sens EGRC: EGR cooler; AIR/AIRE fuel injection; DFI/IFI: direct/in full/partial/partial with fines on prefix 2: parallel; (2) suffix: se device (ex. DPF-SCRC: SCR ethanol ("15%"gasoline) fuel;	J#LVW; LDT3: LDT 600 duty vehicle; MDV4: ME heavy-duty vehicle; E0 vehicle weight rating; L ber ULEV; ZEV: zero-en AC: HC adsorbing cata selective catalytic reduzer; DPF: diesel particu O2S or AFS: wide rang or; NH3S: ammonia se E: secondary air injection; TO -board diagnostic; DOF ries; a hyphen (-) betw coated DPF); CNG/LN E10: "10%" ethanol ("9 continuously variable to on; AMS: automated m V: plug-in hybrid electri	01-850 DV 850 CS: em VW: lo mission alyst; V uction- ulate fil ge/line; ansor; l on (bel C/SC: t R: direc een aff IG: cor 00%"ga ransminanual- c vehic c vehic	0#GVWR,3751-5750 01-10000#GVWR; MI nission control syster aded vehicle weight; n vehicle; TZEV: tran /U: warm-up catalyst urea/ammonia; NH30 ter (active); GPF: PM ar/heated air-fuel rati EGR: exhaust gas re t driven)/(electric driv urbo/super charger; t driven)/(electric driv urbo/super charger; t ozone reducing; H ter treatment ECS ind npressed/liquefied na isoline) fuel; A: autor ission; SCV: selectat	JFALVW, LD 144. DV5: MDV 1000' n; CERT: certific ALVW: adjusted sitional ZEV; TW ;; NAC: NOx ads OC: ammonia ox 1 filter for spark-i- o sensor; NOXS circulation; HP/L ven); PAIR: pulse CAC: charge air CT: hydrocarbor dicates multiple f atural gas; LPG: natic (with lockup ble continuously t ion: OT: other tr	gnited engine; HO2S/O2S: : NOx sensor; PMS: PM sensor; P EGR: High/Low Pressure EGR; ad AIR; SFI/MFI: sequential/multiport cooler; FFH: fuel fired heater; F/P/\$: h trap; BCAN: bleed carbon canister; functionalities of the after treatment liquefied petroleum gas; E85: "85%" b); M: manual transmission; SA: semi variable transmission; AM: ansmission; AER: all-electric range;		

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	ОВ
CADILLAC	CT6 AWD	PC	4.2	SA10	LGMXR0112835	1	\$