

GENERAL MOTORS LLC.

Executive Order: A-006-2180

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-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														
	MODEL TEST GROUP VEHIC				LE CLASS(ES)			FUEL C	FUEL CATEGORY			FUEL TYPE		
2019	2019 KGMXV02.0041 PC							DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
	USEFUL	LIFE (miles)	VEH	IICLE EMISS	ORY	INTER	IM / IN	TERME	RMEDIATE IN-USE STD					
EXI	1/ORVR	EVAP			FTP SFT			TP	FTP			SFTP		
1	50000	150000	LEV3	ULEV50 LEV 3 COMPO			MPOSITE	NMOG+NOX AND I			PM PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L	OBD STATUS				ENGINE DISPLACEMEN (L)			
1	1 DFI, TWC, HO2S(2), TC, CAC							FULL	DELS	1				
*	* *							ARTIAL	*		11	2.0		
*	* *							ARTIAL WITH *						
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						GORY	,	EVAP EMISSION STD VEHICLE CLASS			SP	SPECIAL FEATURES		
KGMXR0112835 LEV 2								PC			HCT			
					EMISSION C	REDIT	INFO	RMATION						
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR ZERO-EVA					REDIT FOR N ZERO-EVAP		NMOG CREDIT FOR DOR			9 -	OPTIONAL EXH. STD FOR WORK TRUCKS			
и									N					
NMOG AND FLEET AVERAGE INFORMATION														
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		HO/NMHC RATIO	NMOG+NOX FLEE PC+LDT (0-3750 I (g/mi)					N-8 500				
*	*	1.10		*	0.072				0.083			*		

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 August 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



FUEL TYPE CERT

0.02

GASOLINE -

TIER 2

UNLEADED

KGMXR0112835

STD

0.20

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ATTACHMENT

	EYUA	1191	ANI) EVA	DODAT	IVE EI	ATTA			INA PO	CERT	IFIC	ATIONI	EVELS	3	
-	·						S AND CE									
	FUE	L TY		CH4: m monoxi adjustm ORVR	ethane; Ni de; NOx: d ent factor; g HC/gallo	MOG: n exides of 2DHS/ on dispe	on-CH4 or of nitrogen; (3DHS [g hensed]: on- ahrenheit;	rganic g HCHO: HC/test]: -board re	as; HC: h formalde 2/3 days efueling	nydrocar ehyde; F s diurnal vapor re	bon; NMH M: particu +hot-soak covery; g:	IC: no ulate r ; RL [gram	on-CH4 Homatter; RA g HC/mi]: ; mg: milli	C; CO: ca AF: reactive running ligram; mi:	vity oss;	
					NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)			HCHO (mg/mi)		PM (g/mi)	
				CERT	STE	CI	ERT S	TD	CERT	STD	CER	Т	STD	CERT	STD	
TP@50	OK	*		*	*		*	*	*	*	*		*	*	*	
FTP@U		OLIN R3 E		0.02	0.05	0 0	0.1 1	1.7	*	*	*		4	0.001	0.003	
50°F @4	4K	*		*	*		*	*	*	*	*		*			
					FUEL T	YPF	E		NMOG+NOx (g/mi)				CO (g/mi)			
					TOLL				CE	RT	STD		CERT	•	STD.	
HWFET	@ 50K				*				,		*					
HWFE	T@UL			GA.	OLINE-T	IER3 E	210		0.0	003	0.050					
20°F	@ 50K	CC	OLD C	D E10	REGULAR	GASOI	LINE (TI	ER3)					1.2		10.0	
				SFTP E	XHAUST	EMISSI	ON STAN	DARDS	AND C	ERTIFIC	ATION L	EVEL	S			
						USO	US06		SC03			COMPOSITE				
	FUEL T	FUEL TYPE		NMOG+NOx (g/mi)			CO PM (g/mi) (mg/r		i) NMOG+NOx (g/mi)		CO (g/mi)	NMOG+NOx (g/mi)		(g/mi)	PM (mg/mi	
@ 4K		, CE		RT *		*	*		,		*					
					*	*				•	*					
			CER	Г	*	*		1	,	k	*	(0.028	0.1	*	
@ UL		GASOLINE- TIER3 E10 S			*			6	,	•	*	0	0.090	4.2	*	
	Bi		BIN									(0.070			
		WH	OLE \	/EHICL	E EVAPO		E EMISSION					ATIO	N LEVEL	S		
E1/4 D	0D4 TIV					WHOL	E VEHICL	E EVA	PORATI	/E TEST	ring			((1) G		
EVAPORATI FAMILY		FUEL				s (g/test	g/test) @ UL		2DHS (g/test)) @ UL		RL (g/mi) () OL	
						CERT	STD	FEL	CE	RT	RT STD		L	CERT	Г	STD
KGMXR011283		GASOLINE - TIER.2 UNLEADED		0.343 0.50		0 * 0		580 0.65		*		0.00		0.05		
C	RVR / F	UEL (ONLY	CAN	STER BLE	ED EV	APORATI	VE EMI	SSIONS	TANDA	RDS AND	CEF	RTIFICAT	ION LEV	ELS	
								F	UEL ON	LY EVA	P & CAN	ISTE	RBLEED			
EVAPORATIVE FAMILY		E ORVR (g/gallon) @ UL				FUEL TYPE		OHS RIG TEST (g/test) @ UL			2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			

CERT

STD

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EFFECTIV	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT ·	STD							
* *		*	*							

*: 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

2	2019 MODEL YEAR: VEHICLE MODELS INFORMATION								
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD		
CADILLAC	CT6	PC	2.0	SA10	KGMXR0112835	1	F		