

### GENERAL MOTORS LLC.

Executive Order: A-006-2228

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-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	- I TE	ST GROUP		VEHIC	VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE				
2019	KGI	KGMXV04.2088 PC						DEDICATED SINGLE FUEL VEHICLE			GASOLINE				
USEFUL LIFE (miles) VEHICLE EMISSION								N CATEGORY INTERIM / INT				ERMEDIATE IN-USE STD			
EXH	/ORVR	EVAP		FTP SI			TP	FTP			SFTP				
150000 150000				LEV3	ULEV125	V125 LEV 3 C		MPOSITE	PM			PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTRO						L	OBD STATUS				ENGINE DISPLACEMENT (L)				
1	DFI,	2CAC, 2TC,	2WR	-HO2S, 2T	TWC, 2HO2S			FULL	*		and the second	ű.			
*								ARTIAL	ALL MODELS			4.2			
*	* *							TIAL WITH	*						
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							′	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES				
I	KGMXR01	12835	LEV 2				PC			HCT					
				E	EMISSION C	REDI	TINFO	ORMATION							
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR NO ZERO-EVAP							N-PZEV NMOG CREDIT FOR DO			R DOR	OPTIONAL EXH. STD FOR WORK TRUCKS				
N N							N				N				
	NMOG AND FLEET AVERAGE INFORMATION														
NMOG CH4 RAF NMOG/NMHC RATIO				CHO/NMHC RATIO	DC+1 DT /0-3750 I V										
*	*	1.10	1.10 * 0.07					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.)



GENERAL MOTORS LLC. Executive Order: A-006-2228

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 2 of 4

#### 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 23 CD day of August 2019.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 



FUEL TYPE CERT

0.01

GASOLINE-TIER3 E10

KGMXR0112835

STD

0.20

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Executive Order: A-006-2228 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

# **ATTACHMENT**

								IACI									
					PORATI	-	***************************************					and the same of th			Table Services	S	
		EXHA			ION STAN												
	FUE	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											ivity Ioss;		
					OG+NOx (g/mi)			CO g/mi)			NOx g/mi)		HCH mg/r			PM /mi)	
				CERT	STD		CERT	STE	)	CERT	STD	CER	Т	STD	CERT	STD	
FTP@5	0K	*		*	*		*	*		. *	*	*		*	*	*	
FTP@L	JL TIEF	GASOLINE-		0.065	0.12	5	0.3	2.1	L	*	*	*		4 0.001		0.003	
50°F @	4K	*	-	*	*		*	*		*	*	*		*	granten (h. 1864). 1884 - Harris Marie (h. 1864).		
					CUCL T	VDI	-			1	MOG+NO	Ox (g/mi)			CO (g/m	i)	
					FUEL T	170	-			CERT		STD	CER		Т	STD	
HWFET @ 50K				*					*	*	*						
HWFE	T@UL			GASOL	INE-TIER	3 I	10 PR	EM		0	.004	0.125	5	ne repute Na Admin			
20°F	@ 50K	CC	DLD C	E10	PREMIUM	GA	SOLINE	(TIER	.3)					1.0		10.0	
			5	FTP E	XHAUST	EMI	SSION	STANDA	ARDS	AND	CERTIFIC	ATION L	EVEL	.S			
						U	US06			SC03				COMPOSITE			
12.7.22	FUEL T	JEL TYPE		YPE NMOG+NOx (g/mi)			CO Př (g/mi) (mg/			NMOG+NOx (g/mi)		CO (g/mi)	NMOG+NO (g/mi)		CO (g/mi	PM (mg/mi)	
@ 4K	*	* CERT STD CERT GASOLINE- FIER3 E10 PREM BIN		CERT *		*				*	*						
<b>C</b>				STD *		*				*	*						
					*		*	2	2		*	*	0.041		0.4	*	
@ UL	TIER3					* 6		5		*	*	* 0.		4.2	*		
														0.120			
		WH	OLE \	EHICL	E EVAPO	RA	TIVE EN	ISSION	STAI	NDAR	DS AND	ERTIFIC	ATIC	N LEVE	LS		
						WH	IOLE V	EHICLE	EVAP	ORAT	TIVE TEST	ING					
EVAPORATIVE FAMILY		FUEL TYP		TYPE 3DHS (g/			y/test) @ UL			2DHS (g/test)		@ UL		RL (g/mi		@ UL	
					CERT S		STD FEL		CERT		STD	FEL		CEF	RT	STD	
KGMXR0112835			GASOLINE- TIER3 E10 0.23 0			0	.50 * 0.		0.	21 0.65		*	* 0.		0.05		
(	ORVR / FU	JEL (	ONLY	CANI	STER BLE	ED	EVAPO	DRATIVE	EMIS	SSION	STANDA	RDS ANI	) CE	RTIFICA	TION LE	/ELS	
	ORATIVE		ORVR	(g/gal	lon) @ UL			T//>-	30				RIG	TEST BLEED CANISTER			
FAMILY						FUEL TYPE			(g/test) @ UL			(g/test) @		UL TEST (g/test) @ 4K			

**CERT** 

STD

**CERT** 

STD

**CERT** 

STD



GENERAL MOTORS LLC. Executive Order: A-006-2228

New Passenger Cars, Light-Duty Trucks and

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Page 4 of 4

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

t: 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

## 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CADILLAC	CT6 AWD	PC	4.2	SA10	KGMXR0112835	1	P