

GENERAL MOTORS LLC.

Executive Order: A-006-2142

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 GRO	UP INFO	RMAT	ION					
MODE		EST GROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
2019	9 KGMXV03.6048 PC						DEDICATED SINGLE FUEL VEHICLE				GASOLINE		
	USEFUL LIFE (miles) VEHICLE EMISSIC						EGOR	IEDIATE IN-USE STD					
EXH	I/ORVR	EVAP			FTP		SFTP		FTP		SFTP		
15	50000	15000	0	LEV3	SULEV30	LEV 3	СОМРО	SITE			*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS	EN	ENGINE DISPLACEMENT (L)		
1	1 DFI, 2TWC, 2HO2S(2), TWC						FUL	L	*				
*	*						PARTIAL ALL MODELS			1	3.6		
*	* P							TIAL WITH *					
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVA	AP / ORV	RFAMILY	EVA	PORATIVE	STD CATE	GORY	EVAP EMISSION STD VEHICLE CLASS			SF	SPECIAL FEATURES		
1	KGMKR0123702			L	LEV 2			PC			HCT		
	EMISSION CREDIT INFORMATION												
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NOT ZERO-EVAP					N-PZEV NMOG CREDIT FOR D			R OPTIONAL EXH. STD FOR WORK TRUCKS				
N N						N				N			
	NMOG AND FLEET AVERAGE INFORMATION												
NMOG RAF	I NIMIOG/NIMIEC			0-3750 L				0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)				
*	*	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.



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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 <

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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ATTACHMENT

		_									FICATION I		
	FUE	L TYI	oi oi	onoxide; djustmen RVR [a l	NOx: oxid t factor; 21 C/gallon	tes of nitrogons OHS/3DHS dispensed]	gen; HCHO: [g HC/test]: : on-board re	formalde 2/3 days efueling v	hyde; P diurnal- apor rec	M: particu +hot-soak; covery; g:	C: non-CH4 H late matter; R/ RL [g HC/mi]: gram; mg: mill : supplementa	VF: reactive running logical r	ity oss;
				NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)			HCHO mg/mi)	PI (g/i	
				CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@5	OK	*		*	*	+	*	*	*		*	*	*
FTP@U		OLIN R3 E		0.010	0.030	0.2	1.0	*	. *		4	*	0.01
50°F @4	1K	*		*	*	*	*	*	*	*	*		
					FUEL TYP	PE				Ox (g/mi)		CO (g/mi)	
								CE	RT	STD	CERT		STD
HWFE1	@ 50K				.* ,					*			
HWFE	T@UL			GASOLINE-TIER3 E10					0.002 0.0				
20°F	@ 50K	СО	LD CO	E10 R	GULAR G	ASOLINE	(TIER3)	15%			2.7		10.0
			SI	FTP EXH	AUST EN	ISSION S	TANDARDS	AND CE	RTIFIC	ATION LE	VELS		
						US06			SC03		CO	MPOSITE	
	FUEL T	YPE			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							*			
		S				•				*			
		GASOLINE- TIER3 E10 B			•	*	*			*	* 0.012		*
@ UL						*	*	•		*	0.090	4.2	*
											0.050	13	

			WHOLE	RL (g/mi) @ UL					
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL					2DHS (g/test) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
KGM:KR0123702	GASOLINE - TIEF: 2 UNLEADED	0.21.7	0.5C)		0.178	0.65		0.00	0.05

				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTE TEST (g/test) @ 4				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
KGMKR0123702	GASOLINE - TIER 2 UNLEADED	0.01	0.20	*	*	*		*	*	*			



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EFFECTIVE	LEAK DIAMETER STAND	ARD AND CERTIFICATION I	EVEL (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; GWR: 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/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partial/partia 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

2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CADILLAC	XTS	PC	3.6	SA6	KGMXR0123702	1	P
CHEVROLET	IMPALA	PC	3.6	SA6	KGMXR0123702	1	P