

Executive Order: A-006-2139

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												
MODE		EST GROUP	VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL TYPE		
2019	KG	MXV03.6166			PC				EL VEHICLE FFV)	85%	85% ETHANOL, GASOLINE		
	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATEC	ORY	EDIATE IN-USE STD				
EXH	I/ORVR	EVAP			FTP		SF	ГР	FTP		SFTP		
15	0000	150000		LEV3	ULEV70	LEV	3 CC	MPOSITE	NMOG+NOX AN	ID PM	PM		
SPE	CIAL FE	ATURES & EX	HAUS TEMS		ON CONTRO	L		OBD S	TATUS	EN	GINE DISPLACEMENT (L)		
1		DFI, 2TWC	, 2но	028(2),	TWC			FULL	*	7			
*	- · · · ·		*				P	ARTIAL	ALL MODELS	1	3.6		
*			*					TIAL WITH	*				
		E	/APOI	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	Y INFORMATIO	N			
EVA	P / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	VEHICLE CLASS			SF	SPECIAL FEATURES		
1	KGMXR01	33810		L	EV 2		PC				*		
				1	EMISSION CI	REDIT	INFO	RMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP		ZEV	NMOG C	REDIT FOR DO	P 1	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAGE	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO (GASOLINE)	F	HO/NMHC RATIO (SOLINE)	ATIO PC+LDT (0-3750					0	MOG+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 \_\_\_\_\_\_day of February 2018.

James.

Annette Hebert, Chief

\_Emissions Compliance, Automotive Regulations and Science Division



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# **ATTACHMENT**

# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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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

**FUEL TYPE** 

			NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		M mi)
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	* -	*
FTP@UL	E85-TIER3 (GASOLINE- TIER3 E10)	0.029	0.070	0.6 (0.3)	1.7	* (*)	* (*)	1 (*)	4 (4)	0.000 (0.001)	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

		NMOG+N	IOx (g/mi)	CO	g/mi)	
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	* 0.002 (0.001)	*			
HWFET @ UL			0.070 (0.070)			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3) (E70 (70% ETHANOL 30% EPA TIER3) - COLD E85 FUEL)			3.0 (3.3)	10.0 (10.0)	

## SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03		COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT		*		*	*			
@ 41.C		STD	*	*		*	*			
		CERT	*	*	1	*	*	0.022	0.4	*
@ UL	E85-TIER3	STD	*	*	6	*	*	0.090	4.2	*
		BIN						0.080		
		CERT	*	*	1	*	*	0.023	0.4	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.090	4.2	*
		BIN						0.080		

# WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS	S (g/test) (	@ UL	2DI	HS (g/test) @	D UL	RL (g/m	i) @ UL
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
KGMXR0133810	E10-EPA	0.25	0.50	*	0.30	0.65	*	0.00	0.05



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS											
						FUEL C	NLY EVA	& CANI	STER BLEE	ED	
EVAPORATIVE FAMILY	ORVR (g/galion) @ UL			FUEL TYPE		3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4	
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD
KGMXR0133810	GASOLINE - TIER 2 UNLEADED	0.01	0.20	*		*	*	*	*	*	*
i i	FFECTIVE	LEAK D	IAMET	ER STAI	NDAR	D AND CE	RTIFICAT	LION LE	VEL (INCH	IES)	
EVAPORATIVE FAMILY LEAK FAMIL			Y CER			RT		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 hvbrid electric vehicle

.2	2019 MODEL Y	EAR: VE	HICLE M	ODELS INF	ORMATION		
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CHEVROLET	IMPALA	PC	3.6	SA6	KGMXR0133810	1	P