

Executive Order: A-006-2160

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 IN	IFOR	MATION					
MODE	_	EST GROUP		VEHIC	LE CLASS(E	S)		FUEL C	ATEGORY		FUEL TYPE		
2019	KG	MXT05.3382			LDT4				EL VEHICLE FFV)	8	5% ETHANOL, GASOLINE		
-	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATEC	ORY	INTERIM / IN	TE	RMEDIATE IN-USE STD		
EXH	/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	15000)	LEV3	ULEV125	LEV	3 CO	MPOSITE	*		PM		
SPE	CIAL FE	ATURES & EX	CHAUS STEM		ON CONTRO	L		OBD S	TATUS	ENGINE DISPLACEME			
1		DFI, 2TW	C, 2H	02S(2),	TWC			FULL	ALL MODELS				
*			*				P	ARTIAL	*	5.3			
*			*					TIAL WITH FINES	*				
		Е	VAPO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	Y INFORMATIO	N			
EVA	P / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	,		SSION STD E CLASS		SPECIAL FEATURES		
P	KGMXR01	6150A		LEV 3	OPTION2			LDT4			HCT		
P	GMXR02	1250B	L	EV 3 OPT	ON2 WITH	FEL		LDT4			HCT		
					EMISSION C	REDIT	T INFO	RMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP		ZEV	NMOG C	REDIT FOR DO	T FOR DOR OPTIONAL EXH. S			
		N		. N		N			N		и и		N
				NMOG	AND FLEE	T AVE	RAGE	EINFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO (GASOLINE)	, (G	HO/NMHC RATIO ASOLINE)	NMOG+NC PC+LDT (0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*	Ç	.072			D. 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

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

NMOG+NOx CO NOx HCHO PM

		NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	* *	*	*	*	*	*	*	*	*	*
FTP@UL	E85-TIER3 (GASOLINE- TIER3 E10)	0.034 (0.031)	0.125 (0.125)	0.4 (0.5)	2.1 (2.1)	* (*)	* (*)	1 (*)	4 (4)	0.000 (0.002)	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)	
	. FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL		0.004	0.125 (0.125)		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3) (E70 (70% ETHANOL + 30% COLD CO REGULAR GASOLINE))			1.5 (2.0)	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	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	*	*		*	*			
		STD	*	*		*	*		CO	
		CERT	*	*	1	*	*	0.020	0.2	*
@ UL	E85-TIER3	STD	*	*	6	*	*	0.090	4.2	*
		BIN						0.120		
		CERT	*	*	1	*	*	0.027	0.4	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.090	4.2	*
		BIN				District Amount		0.120	0.4	0.2343.2353

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

2 20 7	- Andrews Mark		WHOLE							
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test)	@ UL	2D	HS (g/test) (@ UL	RL (g/n) @ UL	
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD	
KGMXR016150A	GASOLINE- TIER3 E10	0.383	0.500	*	0.376	0.500	*	0.00	0.05	
KGMXR021250B	GASOLINE- TIER3 E10	0.470	0.500	0.525	0.354	0.500	0.525	0.00	0.05	



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				FUEL ONLY EVAP & CANISTER BLEED								
KGMXR021250B	ORVR (g/g	gallon) @	UL	FUEL TYPE	3DHS R (g/test		2DHS R (g/test	IG TEST	BLEED CANISTE TEST (g/test) @ 4			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	BLEED CATEST (g/te CERT 0.007 0.010 HES) STD 0.02	STD		
KGMXR016150A	E10-EPA	0.01	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.007	0.020		
KGMXR021250B	E10-EPA	0.03	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.010	0.020		
	EFFECTIVE	LEAK D	IAMET	ER STANDAR	D AND CE	RTIFICA	TION LEV	EL (INCH	IES)			
EVAPORATIVE FAMILY LEAK FAMIL			K FAMIL	Y CERT				STD				
KGMXR016150A		KGMXR0	16150A	-LK1	*				0.02			
KGMXR0212	50B	KGMXR0	21250B	-LK1	4	-		-	0.02			

*: 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; GWWR: 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

2019 MODEL YEAR: VEHICLE MODELS INFORMATION **EVAPORATIVE EXH** OBD VEH CLASS ENGINE (L) TRANS TYPE MODEL MAKE **FAMILY ECS** C1500 SUBURBAN KGMXR021250B 1 F LDT4 5.3 A6 CHEVROLET 2WD C1500 TAHOE 2WD LDT4 5.3 A6 KGMXR016150A 1 F CHEVROLET K1500 SUBURBAN 1 F LDT4 5.3 A6 KGMXR021250B CHEVROLET AWD 5.3 KGMXR016150A 1 F CHEVROLET K1500 TAHOE 4WD LDT4 A6 1 C1500 YUKON 2WD LDT4 5.3 A6 KGMXR016150A F GMC C1500 YUKON XL 1 F A6 KGMXR021250B GMC LDT4 5.3 2WD GMC K1500 YUKON 4WD LDT4 5.3 A6 KGMXR016150A 1 F K1500 YUKON XL 5.3 KGMXR021250B 1 10 GMC LDT4 A6 4WD