

Executive Order: A-006-2162

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	IFORI	MATION					
MOD	I T	EST GROUP		VEHICLE CLASS(ES)				FUEL CATEGORY		FUEL TYPE			
201	9 K						FLEX-FUEL VEHICLE (FFV)			85%	85% ETHANOL, GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISSION (ION C	ATEC	EGORY INTERIM / INTE			ERMEDIATE IN-USE STD			
EXH/ORVR EVAP			FTP SF			SF	TP	FTP		SFTP			
150000 150000			LEV3	ULEV250 LEV3 ULEV (US06, SC03, TEST CYCL		03, FTP	*		*				
SP	SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L		OBD STATUS			ENGINE DISPLACEMENT (L)		
1	1 SFI, 2TWC, 2HO2S(2), TWC							FULL	*	11			
*	*						Р	ARTIAL	ALL MODELS	6.0			
*	* *							TIAL WITH FINES	*				
		E	VAPO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATION	1			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR					GORY		EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
KGMKR021260A LEV 3 OP				EV 3 OPT	TION2 WITH FEL		MDV4			HCT			
	KGMXR0223841			LEV 2			MDV4			HCT			
	"				EMISSION C	REDIT	INFO	RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON- ZERO-EVAP					-PZEV NMOG CREDIT FOR DO		REDIT FOR DO	OPTIONAL EXH. STD FOR WORK TRUCKS				
	и							И			И		
				NMOG	AND FLEET	AVE	RAGE	INFORMA	TION				
NMO(CH4 NMOG/NMHC RATIO IDT (3751 I VW-S			VW-8	500 G	T STD NMOG+NOX FLEET STD 0 GVW) MDV (8501-10000 GVWR) (g/mi)							
*	*	1.10	,	*		*		0.253			0.400		

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, <u>full or partial compliance</u>], 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

4. m. 11

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



GASOLINE-

GASOLINE-

TIER3 E10

0.456

0.543

0.600

1.00

0.575

0.467

0.395

0.600

1.25

0.575

0.00

0.009

0.05

0.05

KGMXR021260A

KGMXR0223841

GENERAL MOTORS

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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 **FUEL TYPE** NMOG+NOx CO NOx **HCHO** PM (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) CERT CERT CERT STD CERT STD STD STD CERT STD FTP@50K E85-TIER3 0.207 0.250 1.7 6.4 2 6 0.001 0.008 (GASOLINE-FTP@UL (*) (0.002) (0.180) (0.250)(1.7)(6.4)(*) (±) (6) (0.008)LEV3 E10) * * * 50°F @4K NMOG+NOx (g/mi) CO (g/mi) **FUEL TYPE** CERT STD CERT STD * HWFET @ 50K E85-TIER3 0.087 0.250 HWFET @ UL (GASOLINE-LEV3 E10) (0.083)(0.250)20°F @ 50K SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS **US06** COMPOSITE **FUEL TYPE** NMOG+NOx NMOG+NOx NMOG+NOx CO PM CO CO PM (g/mi) (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) (mg/mi) CERT @ 4K STD * * CERT 0.152 1.9 4 @ UL E85-TIER3 STD * * * * 0.800 22.0 10 BIN CERT * * * * * 0.145 3.1 4 GASOLINE-@ UL STD 22.0 0.800 10 LEV3 E10 BIN WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS WHOLE VEHICLE EVAPORATIVE TESTING **EVAPORATIVE** RL (g/mi) @ UL **FUEL TYPE** 3DHS (g/test) @ UL 2DHS (g/test) @ UL FAMILY CERT STD FEL CERT STD FEL CERT STD



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				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 CANISTER TEST (g/test) @ 4k			
	FUEL TYPE	CERT STD			CERT	STD	CERT	STD	CERT	STD		
KGMXR021260A	GASOLINE- TIER3 E10	0.01	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.007	0.030		
KGMXR0223841	GASOLINE- TIER3 E10	0.01	0.20	*	*	*	*	*	*	*.		
	EFFECTIVE	LEAK D	IAMET	ER STANDAR	D AND CE	RTIFICA	TION LEV	EL (INCH	IES)			
EVAPORATIVE FAMILY		LEAK FAMILY			CERT			STD				
KGMXR021260A		KGMXR0	21260A	-LK1				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: senes; 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	ECS	ОВС
CHEVROLET	C25 SILVERADO 2WD	MDV4	6.0	A6	KGMXR021260A	1	P
CHEVROLET	C35 SILVERADO 2WD	MDV4	6.0	A6	KGMXR021260A	1	P
CHEVROLET	G2500 EXPRESS 2WD CARGO	MDV4	6.0	A6	KGMXR0223841	1	P
CHEVROLET	G2500 EXPRESS 2WD PASS	MDV4	6.0	A6	KGMXR0223841	1	P
CHEVROLET	G3500 EXPRESS 2WD CARGO	MDV4	6.0	A6	KGMXR0223841	1	P
CHEVROLET	G3500 EXPRESS 2WD PASS	MDV4	6.0	A6	KGMXR0223841	1	P
CHEVROLET	K25 SILVERADO 4WD	MDV4	6.0	A6	KGMXR021260A	1	P
CHEVROLET	K35 SILVERADO 4WD	MDV4	6.0	A6	KGMXR021260A	1	P
GMC	C25 SIERRA 2WD	MDV4	6.0	A6	KGMXR021260A	1	P
GMC	C35 SIERRA 2WD	MDV4	6.0	A6	KGMXR021260A	1	P
GMC	G2500 SAVANA 2WD CARGO	MDV4	6.0	A6	KGMXR0223841	1	P
GMC	G2500 SAVANA 2WD PASS	MDV4	6.0	A6	KGMXR0223841	1	P
GMC	G3500 SAVANA 2WD CARGO	MDV4	6.0	A6	KGMKR0223841	1	P



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MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	ОВС
GMC	G3500 SAVANA 2WD PASS	MDV4	6.0	A6	KGMXR0223841	1	P
GMC	K25 SIERRA 4WD	MDV4	6.0	A6	KGMXR021260A	1	P
GMC	K35 SIERRA 4WD	MDV4	6.0	A6	KGMXR021260A	1	P