

Executive Order: A-006-2359

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-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 GRO	OUP IN	IFOR	MATION					
MODE YEAR		EST GROUP		VEHIC	LE CLASS(E	S)		FUEL C	ATEGORY		FUEL TYPE		
2023	PG	MXD06.6398			MDV5		:		SINGLE FUEL HICLE		GASOLINE		
	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION C	ON CATEGORY INTERIM / INT			TER	MEDIATE IN-USE STD		
EXH	I/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	150000)	LEV3	ULEV270	LEV3 UL (HOT1435 (LA92), S FTP TEST C		135 UC SC03,	*		*		
SPE	CIAL FE	ATURES & EX	HAUS		ON CONTRO	L		OBD S	TATUS	E	NGINE DISPLACEMENT (L)		
1		DFI, 2TW	С, 2Н	O2S(2),	TWC			FULL	ALL MODELS				
*			*				Р	ARTIAL	_ *		6.6		
*	*							TIAL WITH FINES	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	P / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	,	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
I	GMXF01	6360D	L	EV 3 OPTI	ON2 WITH	2 WITH FEL MDV5			v5		HCT		
I	GMXF01	9060C	L	EV 3 OPTI	ON2 WITH	FEL	TEL MDV5			HCT			
I	GMXF02	176вв	L	EV 3 OPT	ON2 WITH	FEL		MDV5			HCT		
I	GMXR02	1260A	L	EV 3 OPTI	OPTION2 WITH FEL		MD	v5		HCT			
				I	EMISSION C	REDIT	INFO	RMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG C	REDIT FOR DOI	₹	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAGE	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	: 1	HO/NMHC RATIO	O/NMHC DT (3751 LVW-8500			STD NMOG+NOX FLEET ST GVW) MDV (8501-10000 GVWF (g/mi)					
*	*	1.10		*		*			0.178		0.247		
See th	e Attach	ment for Vehi	cle M	odels Eva	aporative Fa	milv	Fnair	e Displace	ment Emission	ı Co	ntrol Systems, Phase-		

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.)



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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 on this 27th day of May 2022.

Fibre Shi for Allen Lyons, Chief

Emissions Certification and Compliance 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

FUEL TYPE

		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	GASOLINE- TIER3 E10	0.106	0.270	0.7	4.2	*	*	*	6	0.007	0.010
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUELTIPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.012	0.270			
20°F @ 50K	*			*	*	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

					SC0	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	4K *	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	*	*	*	0.051	0.3	5
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.550	6.0	7
		BIN						*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		WHOLE \						
EVAPORATIVE FAMILY		3DHS (g/test) @ UL			2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
PGMXF016360D	GASOLINE- TIER3 E10	0.448	0.600	0.600	0.325	0.600	0.600	0.00	0.05
PGMXF019060C	GASOLINE- TIER3 E10	0.448	0.600	0.600	0.304	0.600	0.600	0.00	0.05
PGMXF02176BB	GASOLINE- TIER3 E10	0.386	0.600	0.600	0.339	0.600	0.600	0.00	0.05
PGMXR021260A	GASOLINE- TIER3 E10	0.532	0.600	0.600	0.400	0.600	0.600	0.00	0.05

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ORVR / FU	ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY				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			
PGMXF016360D	GASOLINE- TIER3 E10	*	*	GASOLINE- TIER3 E10	*	*	*	*	0.019	0.030			
PGMXF019060C	GASOLINE- TIER3 E10	*	*	GASOLINE- TIER3 E10	*	*	*	*	0.004	0.030			
PGMXF02176BB	GASOLINE- TIER3 E10	*	*	GASOLINE- TIER3 E10	*	*	*	*	0.018	0.030			
PGMXR021260A	GASOLINE- TIER3 E10	0.05	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.011	0.030			

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)

EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
PGMXF016360D	PGMXF016360D-LK1	*	0.02
PGMXF019060C	PGMXF019060C-LK1	*	0.02
PGMXR021260A	PGMXR021260A-LK1	*	0.02
PGMXF02176BB	PGMXF02176BB-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; 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%" éthanol ("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

2023 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CHEVROLET	G3500 EXPRESS 2WD CUTAWAY CH	MDV5	6.6	A6	PGMXF019060C	1	F
CHEVROLET	G3500 EXPRESS 2WD CUTAWAY CH	MDV5	6.6	A 6	PGMXF02176BB	1	F
CHEVROLET	G4500 EXPRESS 2WD CUTAWAY CH	MDV5	6.6	A6	PGMXF019060C	1	F
CHEVROLET	G4500 EXPRESS 2WD CUTAWAY CH	MDV5	6.6	A 6	PGMXF02176BB	1	F
CHEVROLET	SILVERADO 2500 HD 2WD	MDV5	6.6	A6	PGMXR021260A	1	F



2023 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	ОВЕ
CHEVROLET	SILVERADO 2500 HD 2WD CAB CHAS	MDV5	6.6	A 6	PGMXF02176BB	1	F
CHEVROLET	SILVERADO 2500 HD 4WD	MDV5	6.6	A 6	PGMXR021260A	1	F
CHEVROLET	SILVERADO 2500 HD 4WD CAB CHAS	MDV5	6.6	A 6	PGMXF02176BB	1	F
CHEVROLET	SILVERADO 2500 HD 4WD MT	MDV5	6.6	A 6	PGMXR021260A	1	F
CHEVROLET	SILVERADO 3500 HD 2WD	MDV5	6.6	A 6	PGMXR021260A	1	F
CHEVROLET	SILVERADO 3500 HD 2WD CAB CHAS	MDV5	6.6	A 6	PGMXF016360D	1	F
CHEVROLET	SILVERADO 3500 HD 2WD CAB CHAS	MDV5	6.6	A 6	PGMXF02176BB	1	F
CHEVROLET	SILVERADO 3500 HD 2WD DRW	MDV5	6.6	A6	PGMXR021260A	1	F
CHEVROLET	SILVERADO 3500 HD 4WD	MDV5	6.6	A 6	PGMXR021260A	1	F
CHEVROLET	SILVERADO 3500 HD 4WD CAB CHAS	MDV5	6.6	A 6	PGMXF016360D	1	F
CHEVROLET	SILVERADO 3500 HD 4WD CAB CHAS	MDV5	6.6	A 6	PGMXF02176BB	1	F
CHEVROLET	SILVERADO 3500 HD 4WD DRW	MDV5	6.6	A6	PGMXR021260A	1	F
GMC	G3500 SAVANA 2WD CUTAWAY CH	MDV5	6.6	A6	PGMXF019060C	1	F
GMC	G3500 SAVANA 2WD CUTAWAY CH	MDV5	6.6	A6	PGMXF02176BB	1	F
GMC	G4500 SAVANA 2WD CUTAWAY CH	MDV5	6.6	A6	PGMXF019060C	1	F
GMC	G4500 SAVANA 2WD CUTAWAY CH	MDV5	6.6	A 6	PGMXF02176BB	1	F
GMC	SIERRA 2500 HD 2WD	MDV5	6.6	A 6	PGMXR021260A	1	F
GMC	SIERRA 2500 HD 2WD CAB CHAS	MDV5	6.6	A6	PGMXF02176BB	1	F
GMC	SIERRA 2500 HD 4WD	MDV5	6.6	A6	PGMXR021260A	1	F
GMC	SIERRA 2500 HD 4WD CAB CHAS	MDV5	6.6	A6	PGMXF02176BB	1	F
GMC	SIERRA 2500 HD 4WD MT	MDV5	6.6	A6	PGMXR021260A	1	F
GMC	SIERRA 3500 HD 2WD	MDV5	6.6	A6	PGMXR021260A	1	F
GMC	SIERRA 3500 HD 2WD CAB CHAS	MDV5	6.6	A6	PGMXF016360D	1	F
GMC	SIERRA 3500 HD 2WD CAB CHAS	MDV5	6.6	A6	PGMXF02176BB	1	F
GMC	SIERRA 3500 HD 2WD DRW	MDV5	6.6	A6	PGMXR021260A	1	F
GMC	SIERRA 3500 HD 4WD	MDV5	6.6	A6	PGMXR021260A	1	F
GMC	SIERRA 3500 HD 4WD CAB CHAS	MDV5	6.6	A 6	PGMXF016360D	1	F

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MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
GMC	SIERRA 3500 HD 4WD CAB CHAS	MDV5	6.6	A 6	PGMXF02176BB	1	F
GMC	SIERRA 3500 HD 4WD DRW	MDV5	6.6	A 6	PGMXR021260A	1	F