

GENERAL MOTORS LLC. Executive Order: A-006-2164

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	- 1 TE	TEST GROUP			VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2019	KG	KGMXD06.0399			MDV5			FLEX-FUEL VEHICLE (FFV)			85% ETHANOL, GASOLINE		
USEFUL LIFE (miles)				VEHICLE EMISSION CATEGOR				ORY	INTERIM / IN	TERM	RMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP S			SF	TP FTP			SFTP		
1!	150000 150000)	LEV3	ULEV400	LEV3 U (HOT14 UC(LA92), FTP TEST		. SC03,	*		*		
SPE	SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							OBD STATUS			ENGINE DISPLACEMENT (L)		
1	1 SFI, 2TWC, 2HO2S(2), TWC							FULL	*				
*	* *						P	ARTIAL	ALL MODELS		6.0		
*	* *						1	TIAL WITH FINES	*				
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	KGMXR021260A L			V 3 OPTION2 WITH FEL				MDV5			HCT		
					EMISSION C	REDI	INFO	RMATION					
	CREDIT FOR EXTENDED					EDIT FOR NON-PZEV ERO-EVAP			REDIT FOR DO		OPTIONAL EXH. STD FOR WORK TRUCKS		
	N N								N		N		
				NMOG	AND FLEE	TAVE	RAGE	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO (GASOLINE	RATIO (GASOLINE) + MDDV (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, 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 Jurie 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



GASOLINE-

TIER3 E10

0.456

0.600

0.575

0.467

0.600

0.575

0.00

0.05

KGMKR021260A

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ATTACHMENT

	EXI	HAUS	TAN	DEVAF	PORATIV	E EMISS	SION ST	ANDARE	S ANI	CERT	IFICATION	LEVELS	3	
		EXI	HAUST	EMISSIC	ON STAND	ARDS AN	D CERTIF	ICATION L	EVELS	(FTP, HW	/FET, 50°F, 2	0°F)		
	F	FUEL TYP		monoxide adjustme ORVR [g	e; NOx: oxiont factor; 2l HC/gallon	des of nitro DHS/3DHS dispensed	gen; HCl [g HC/te]: on-boar	IO: formaldest]: 2/3 days d refueling	ehyde; F s diurnal vapor re	M: particu +hot-soak covery; g:	IC: non-CH4 ulate matter; F ;; RL [g HC/m gram; mg: m P: supplement	RAF: reactivi]: running lilligram; mi	vity oss;	
					NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)			
				CERT	STD	CERT	STD	CERT	STD	CER	T STD	CERT	STD	
FTP@5	ок	*		*	*	*	*	*	*	*	*	*	*	
FTP@U	E85-TIER		INE-	0.188	0.400	1.4 (1.7)	7.3 (7.3)	* (*)	(*)	3 (1)	6 (6)	0.002	0.010	
50°F @4	_	*		*	*	*	*	*	*	*	*		1	
						-		NI	MOG+N	Ox (g/mi)		CO (g/mi)	
				FUEL TYPE				CE	CERT		CEF	RT	STD	
HWFET @ 50K					*				*					
HWFET @ UL (G				(GAS	E85-TIER3 GASOLINE-LEV3 E10)				0.086 (0.087)		0.400 (0.400)			
20°F	@ 50H	<		*							*		*	
		1		SFTP EX	HAUST EN	MISSION S	TANDAR	DS AND C	ERTIFIC	ATION L	EVELS			
						US06			SC03			COMPOSITE		
	FUE	UEL TYPE			G+NOx J/mi)	CO (g/mi)	PM (mg/m		NMOG+NOx (g/mi)		NMOG+NO (g/mi)	x CO (g/mi)	PM (mg/mi	
@ 4K		* CE		Т	*	*			*	*				
					*	*			*	*				
@ UL		E85-TIER3 S			*	*	*		*		0.144	6.0	1	
	E85-				*	*	*		*	*	* 0.550		7	
		CE			*	*	+		*	+	0.147	1.1	3	
@ UL		GASOLINE-			*		* *		*		0.550	6.0	7	
	LEV3 E10		BIN											
		10			EVADOR	ATIVE EM	ISSION S	TANDARD	CAND	CEDTIFIC		1.6		
		W	HULE	VEHICLE				APORATI			ATION LEVE	:L3		
EVAPORATIVE FUEL			FUEL	TYPE	UL		S (g/test		F	RL (g/mi) @ UL				
- Comit				CERT		FEL	CERT	STD	FE	L CE	RT	STD		



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS **FUEL ONLY EVAP & CANISTER BLEED** ORVR (g/gallon) @ UL 3DHS RIG TEST **2DHS RIG TEST BLEED CANISTER EVAPORATIVE** FAMILY (g/test) @ UL (g/test) @ UL TEST (g/test) @ 4K **FUEL TYPE** FUEL TYPE CERT STD CERT CERT CERT STD STD STD GASOLINE-KGMXR021260A 0.007 0.030 E10-EPA 0.01 0.20 TIER3 E10 EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES) **EVAPORATIVE FAMILY LEAK FAMILY** CERT STD KGMXR021260A KGMXR021260A-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; 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

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CHEVROLET	C35 SILVERADO 2WD	MDV5	6.0	A6	KGMXR021260A	1	P
CHEVROLET	K35 SILVERADO 4WD	MDV5	6.0	A6	KGMXR021260A	1	P
GMC	C35 SIERRA 2WD	MDV5	6.0	A6	KGMXR021260A	1	P
GMC	K35 SIERRA 4WD	MDV5	6.0	A6	KGMXR021260A	1	P