

GENERAL MOTORS LLC.

Executive Order: A-006-2156

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 1 of 4

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.

SYSTEMS 1 DFI, 2TWC, 2HO2S(2), TWC * * PARTIAL * PARTIAL * 6.2 * PARTIAL WITH FINES EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS KGMXR021250B LEV 3 OPTION2 WITH FEL EMISSION CREDIT INFORMATION EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR NON-PZEV NMOG CREDIT FOR DOR OPTIONAL EXH. S FOR WORK TRUC NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 FTP NMOG/NMHC NMOG-NOX FLEET STD NMOG+NOX FLEET STD S						TEST GRO	UP IN	IFOR	MATION					
USEFUL LIFE (miles) EXH/ORVR EVAP 150000000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 150000 1500000 150000 150000 150000 150000 150000 150000 150000 150000 1500000 150000 150000 150000 150000 150000 150000 150000 150000 1500000 150000 150000 150000 150000 150000 150000 150000 150000 1500000 150000 150000 150000 150000 150000 150000 150000 150000 1500000 150000 150000 150000 150000 150000 150000 150000 150000 1500000 150000 150000 150000 150000 150000 150000 150000 150000 15000000 1500000 1500000 1500000 150000000 150000000 1500000000		- I TE	EST GROUP	VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL TYPE		
EXH/ORVR EVAP FTP SFTP FTP SFTP SFTP SFTP SFTP SFTP	2019)19 KGMXT06.2374 LDT4										GASOLINE		
150000 150000 LEV3 ULEV125 LEV 3 COMPOSITE * SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS DFI, 2TWC, 2H02S(2), TWC FULL ALL MODELS PARTIAL * PARTIAL * ENGINE DISPLACEM (L) FULL ALL MODELS PARTIAL * 6.2 PARTIAL WITH FINES EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY VEHICLE CLASS KGMXR016150A LEV 3 OPTION2 WITH FEL LDT4 HCT KGMXR016150A LEV 3 OPTION2 WITH FEL LDT4 HCT EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CH4 NMOG/NMHC NMOG-NOX FLEET STD NMOG+NOX FLEET STD NMOG-NOX FLEET STD NMOG+NOX FLEET STD STD STD STD STD STD STD STD STD ST	ι	JSEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TER	MEDIATE IN-USE STD		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS DETTION DETT	EXH/ORVR EVAP					FTP		SF	FTP FTP			SFTP		
SYSTEMS 1 DFI, 2TWC, 2H02S(2), TWC * * * PARTIAL *	15	0000	15000	LEV3	ULEV125 LEV 3 COMPOSI			MPOSITE	*		*			
* PARTIAL * 6.2 * PARTIAL * PARTIAL * PARTIAL * PARTIAL * PARTIAL WITH FINES * PARTIAL * PARTIA							L		OBD STATUS			ENGINE DISPLACEMENT (L)		
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY VEHICLE CLASS SPECIAL FEATURES KGMXR021250B LEV 3 OPTION2 WITH FEL LDT4 HCT KGMXR016150A LEV 3 OPTION2 LDT4 HCT EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 FTP NMOG/NMHC PATION NMOG+NOX FLEET STD NMOG+NOX FLEET STD NMOG+NOX FLEET STD NMOGHOX FLEET MOD MOD NMOGHOX FLEET STD NMOGHOX FLEET STD NMOGHOX FLEET STD MOD NMOGHOX FLEET STD NMOGHOX FLEET STD MOD NMOGHOX FLEET STD MO	1 DFI, 2TWC, 2HO2S(2), TWC								FULL ALL MOI		1[
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY VEHICLE CLASS SPECIAL FEATURES KGMXR021250B LEV 3 OPTION2 WITH FEL LDT4 HCT KGMXR016150A LEV 3 OPTION2 LDT4 HCT EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR FOR WORK TRUCK NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 NMOG/NMHC PAFIND NMOG+NOX FLEET STD NMOG+NOX FLEET STD NMOGHNOX FLEET MDV (10,001-14,001-								Р	ARTIAL	*	11	6.2		
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURES NUMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV WARRANTY NUMOG AND FLEET AVERAGE INFORMATION NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 PAFE NMOG/NMHC NMOG/NOX FLEET STD NMOG/NOX	*	* *								*				
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY VEHICLE CLASS SPECIAL FEATURES KGMXR021250B LEV 3 OPTION2 WITH FEL LDT4 HCT KGMXR016150A LEV 3 OPTION2 LDT4 HCT EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY N NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR NON-PZEV NMOG CREDIT FOR DOR POR NON-PZEV NMOG CREDIT FOR DOR NMOG CREDIT FOR WORK TRUCK NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 NMOG/NMHC HCHO/NMHC PATIO NMOG+NOX FLEET STD NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) LDT (3751 LVW-8500 MDV (10,001-14,001			E	VAPO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATION	N			
EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY N NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 NMOG CH4 NMOG/NMHC NMOG/NMHC	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						GORY	,				SPECIAL FEATURES		
EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY N NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR NMOG CREDIT FOR DOR FOR WORK TRUC N NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 NMOG CH4 NMOG/NMHC NMOG/N	KGMXR021250B LEV 3 OPTION2 WITH FE					FEL	LDT4			HCT				
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR FOR WORK TRUC NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 NMOG CH4 NMOG/NMHC NMOG/NMHC NMOG/NMHC PATIO NMOG+NOX FLEET STD NMOG+NOX FLEET STD LDT (3751 LVW-8500) NMOG+NOX FLEET MDV (10,001-14,00	KGMKR016150A LEV 3 OPTI					OPTION2	OPTION2 LDT4				HCT			
CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV NMOG CREDIT FOR DOR FOR WORK TRUC NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 NMOG/NMHC PATIO NMOG+NOX FLEET STD NMOG+NOX FLE					E	EMISSION C	REDIT	INF	DRMATION					
NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 FTP NMOG/NMHC HCHO/NMHC PATIO PC+LDT (0-3750 LVW) LDT (3751 LVW-8500 MDV (10,001-14	CREDIT FOR EXTENDED NMOG CREDIT FOR NC							ZEV	NMOG CREDIT FOR DO			OPTIONAL EXH. STD FOR WORK TRUCKS		
NMOG CH4 FTP NMOG/NMHC HCHO/NMHC PC+LDT (0-3750 LVW) LDT (3751 LVW-8500 MDV (10,001-14	N N									И		N		
NMOG CH4 NMOG/NMHC HCHO/NMHC PC+LDT (0-3750 LVW) LDT (3751 LVW-8500 MDV (10,001-14,0					NMOG	AND FLEE	Γ AVE	RAGI	E INFORMA	TION				
(3)		NE PAE NMOG/NMHC HCHO/NMHC PC+LDT (0-37			0-375		VW) LDT (3751 LVW-8500		MDV (10,001-14,000					
* * 1.10 * 0.072 0.083 *	*	*	1.10		*	0	.072			0.083		*		

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phæe-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Appreviations.



GENERAL MOTORS LLC. Executive Order: A-006-2156

New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
Page 2 of 4

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 May 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



GASOLINE-

TIER3 E10 GASOLINE-

TIER3 E10

0.383

0.470

0.500

0.500

0.525

KGMXR016150A

KGMXR021250B

GENERAL MOTORS LLC.

Executive Order: A-006-2156 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

0.05

0.05

0.00

0.00

ATTACHMENT

	EXI											FET, 50°F, 20°)	
	F	FUEL T		CH4: momoxic monoxic adjustm ORVR [ethane; NM le; NOx: ox ent factor; i g HC/gallor	OG: non- ides of nit 2DHS/3DH dispense	CH4 org trogen; H HS [g H(ed]: on-b	janic ga HCHO: C/test]:	ns; HC: I formalde 2/3 days	nydrocar ehyde; F s diurnal vapor re	bon; NMI M: partice +hot-soal covery; g:	HC: non-CH4 H ulate matter; RA ; RL [g HC/mi]: gram; mg: milli : supplementa	C; CO: ca AF: reactive running le gram; mi:	rity oss;	
				NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)			HCHO (mg/mi)		PM (g/mi)	
				CERT	STD	CERT	STD	D	CERT STD		CER	T STD	CERT	STD	
FTP@5	0K	*		*	*	*	4		*	*	*	*	*	*	
FTP@L	@UL GASOLINE-			0.050	0.125	0.3	2.	1	*	*	*	4	*	0.01	
50°F @4	4K	*		*	*	*			*	*	*	*			
				FUEL TYPE					NMOG+NOx (g/mi)			CO (g/mi)			
									CE	RT	STD	CERT		STD	
HWFE1	T @ 50	0K			*				,		*				
HWFET @ UL				GASOLINE-TIER3 E10					0.0	800	0.12	5			
20°F	@ 50H	< 0			REGULAR			,				1.5		12.5	
			,	SFTP E	XHAUST E		STAND	ARDS	AND C						
				-		US06			SC03			1	MPOSITE		
1	FUE	L TYPE		1	OG+NOx g/mi)	CO (g/mi)		g/mi)	NMOG (g/		CO (g/mi)	NMOG+NOx (g/mi)	(g/mi)	PM (mg/mi	
@ AK		* CI		RT *		*	*				*				
@ 4K				•		*	*				*				
		C		tT *		*	* *		*		*	* 0.037		*	
@ UL GASOL:		R3 E10 ST		*		*		*			*	0.090	4.2	*	
			BIN									0.120			
		W	HOLE \	/EHICL	E EVAPOR	ATIVE E	MISSIO	N STAP	NDARD:	S AND	ERTIFIC	ATION LEVEL	S		
					1	WHOLE V	EHICLE	EVAP	ORATI	/E TES	ring				
EVAPORATIVE FUEL		FUEL 1	YPE	3DHS	UL		2DHS (g/test) @ UL			RL (g/mi) @ UL					
					CERT	STD	FEL	CE	RT	STD	FE	L CER	T STD		

0.376

0.354

0.500

0.500

0.525



KGMXR021250B

GENERAL MOTORS LLC. Executive Order: A-006-2156

New Passenger Cars, Light-Duty Trucks and

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Page 4 of 4

				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/g	gallon) (D UL	FUEL TYPE	3DHS R (g/test	IG TEST) @ UL	2DHS RIG TEST (g/test) @ UL		BLEED CANISTE TEST (g/test) @ 4			
	FUEL TYPE CERT STD			CERT	STD	CERT	STD	CERT	STD			
KGMXR016150A	E10-EPA	0.01	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.007	0.020		
KGMXR021250B	50B E10-EPA 0.03		0.20	GASOLINE- TIER3 E10	*	*	*	*	0.010	0.020		
	FFECTIVE	LEAK D	IAMET	ER STANDAR	D AND CE	RTIFICA	TION LEV	EL (INCH	IES)			
EVAPORATIVE	LEA	K FAMIL	Υ .	CE	RT		STD					
KGMXR0161	50A	KGMXR0	16150A	-LK1		1		0.02				

KGMXR021250B-LK1

: 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	ОВО
CADILLAC	ESCALADE 2WD	LDT4	6.2	A10	KGMXR016150A	1	F
CADILLAC	ESCALADE 2WD	LDT4	6.2	A10	KGMXR021250B	1	F
CADILLAC	ESCALADE 4WD	LDT4	6.2	A10	KGMXR016150A	1	F
CADILLAC	ESCALADE 4WD	LDT4	6.2	A10	KGMXR021250B	1	F
CHEVROLET	C1500 SUBURBAN 2WD	LDT4	6.2	A10	KGMXR021250B	1	F
CHEVROLET	C1500 TAHOE 2WD	LDT4	6.2	A10	KGMXR016150A	1	F
CHEVROLET	K1500 SUBURBAN 4WD	LDT4	6.2	A10	KGMXR021250B	1	F
CHEVROLET	K1500 TAHOE 4WD	LDT4	6.2	A10	KGMXR016150A	1	F
GMC	C1500 YUKON 2WD	LDT4	6.2	A10	KGMXR016150A	1	F
GMC	C1500 YUKON XL 2WD	LDT4	6.2	A10	KGMXR021250B	1	F
GMC	K1500 YUKON 4WD	LDT4	6.2	A10	KGMXR016150A	1	F
GMC	K1500 YUKON XL	LDT4	6.2	A10	KGMXR021250B	1	F