

### GENERAL MOTORS LLC.

Executive Order: A-006-2148 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.

					TEST GRO	UP IN	IFORI	MATION					
MODE	_ (	ST GROUP	OUP VEHICLE CLASS(E					FUEL C	ATEGORY		FUEL TYPE		
2019	019 KGMXV02.0031 PC						DEDICATED SINGLE FUEL VEHICLE				GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISSION							ATEC	ORY	INTERIM / IN	TE	RMEDIATE IN-USE STD		
EXH	/ORVR	EVAP	FTP S			SF	FTP FTP			SFTP			
15	0000	150000	LEV3	ULEV70 LEV 3 COME			MPOSITE	e nmog+nox		*			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	OBD STATUS		ENGINE DISPLACEMEN		
1 TWC, DFI, HO2S(2), TC, CAC								FULL	*	11			
*	* *							ARTIAL	ALL MODELS	11	2.0		
*	* *							TIAL WITH	*				
		E	/APC	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	V			
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						Y EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
K	GMXR01	33880		L	EV 2		PC				HCT		
K	GMXR01	1030C		L	EV 2		PC				HCT		
					EMISSION C	REDIT	rinfo	RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR NON- ZERO-EVAP						N-PZEV NMOG CREDIT FOR D			OPTIONAL EXH. STD FOR WORK TRUCKS			
	N N							И			И		
				NMOG	AND FLEET	AVE	RAGE	INFORMA	TION				
NMOG RAF	NMOG/NMHC I			HO/NMHC RATIO	DCTI DT /D-3750 I V								
*	*	1.10		*	0	. 072		0.083			*		

See the Attachment for Vehicle Models, Evaporative Family, Erigine 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 April 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



UNLEADED
GASOLINE -

TIER 2 UNLEADED

KGMXR0133880

0.205

0.50

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# **ATTACHMENT**

# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

		EXH/	AUST	EMISS	ION STAN	DARDS AN	ID CER	TIFICA	TION L	EVELS	(FTP, HW	FET, 50°F	, 20°	F)		
0.00000	FUE	FUEL TYPE		nonoxid Idjustm DRVR [	de; NOx: o ent factor; g HC/gallo	MOG: non-C xides of nitr 2DHS/3DH in dispense prees Fahre	ogen; H S [g HC d]: on-bo	CHO: for the character for the	ormalde 2/3 days fueling v	hyde; P diurnal apor red	M: particu +hot-soak covery; g:	late matte ; RL [g HC gram; mg	r; RA /mi]: i : millig	F: reactiv running lo gram; mi:	ity oss;	
	4.					NMOG+NOx (g/mi)		CO (g/mi)			NOx (g/mi)			HCHO mg/mi)		
				CERT	STD	CERT	STI	D (	CERT	STD	CER	T STI	0	CERT	STD	
FTP@50	OK	*		*	*	*	*	*	* *		*	*	*	*	*	
FTP@U		GASOLINE- TIER3 E10		0.032	0.07	0.6	1.	7	*	*	*	* 4		*	0.01	
50°F @4	IK	* *		*	*	*		* *		*	*					
					CUEL T	VDE			NI	OG+N	Ox (g/mi)		(	O (g/mi)		
					FUEL TYPE					CERT		(	ERT		STD	
HWFE1	@ 50K				*				*		*					
HWFE	T@UL			GAS	OLINE-T	IER3 E10			0.0	13	0.070					
20°F	@ 50K	CC	LD CC	E10	REGULAR	GASOLINE	(TIEF	R3)					2.4		10.0	
			5	FTP E	XHAUST	EMISSION	STAND	ARDS	AND CE	ERTIFIC	ATION L	EVELS				
-						US06				SC03				POSITE		
	FUEL T	YPE		1	OG+NOx (g/mi)	CO (g/mi)		M /mi)	NMOG (g/i		CO (g/mi)	NMOG+ (g/m		CO (g/mi)	PM (mg/m	
@ 4K	*	, CE		RT +		*	*		+		*			LA COLOR		
				D *		*			*		*					
		SOLINE- ER3 E10 B		T *		*	*		*		*	0.02	5	1.3	*	
@ UL					*	*			*		*	0.090		4.2	*	
				1								0.080				
		WH	OLE V	/EHICL	E EVAPO	RATIVE EN	MISSION	STAN	DARDS	SAND	CERTIFIC	ATION LE	VELS	3		
						WHOLE V	EHICLE	EVAP	ORATI	E TEST	TING					
EVAPORATIVE FUEL		UEL T	TYPE 3DH		6 (g/test) @ UL			2DHS (g/test)		@ UL		RL (g/mi) @ U		UL		
					CERT	STD	FEL	CEF	RT	STD	FEI		CERT		STD	
KGMXR011030C			ASOLI		0.364	0.50	*	0.1	.189 0.65 *				0.00		0.05	

0.288

0.65

0.00

0.05



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				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/g	gallon) (	UL	FUEL TYPE	3DHS R (g/test		2DHS R (g/test	IG TEST	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	YPE CERT STD			CERT	STD	CERT	STD	CERT	STD		
KGMXR0133880	GASOLINE - TIER 2 UNLEADED	0.01	0.20	*		*		*	*	*		
KGMXR011030C	GASOLINE - TIER 2 UNLEADED	0.02	0.20	*	*	•		*	*	*		
	EFFECTIVE I	LEAK D	IAMET	ER STANDARI	O AND CE	RTIFICA	TION LEV	EL (INCH	IES)			
EVAPORATIVE FAMILY LEAK			K FAMIL	Υ	CE	RT	-	STD				
*			*					*				

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: \_DT<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	OBD
BUICK	REGAL	PC	2.0	SA9	KGMXR011030C	1	P
BUICK	REGAL AWD	PC	2.0	SA8	KGMXR011030C	1	P
BUICK	REGAL TOUR X AWD	PC	2.0	SA8	KGMXR011030C	1	P
CADILLAC	ATS	PC	2.0	M6,SA8	KGMXR011030C	1	P
CADILLAC	ATS AWD	PC	2.0	SA8	KGMXR011030C	1	P
CADILLAC	CTS	PC	2.0	SA8	KGMXR0133880	1	P
CADILLAC	CTS AWD	PC	2.0	SA8	KGMXR0133880	1	P
CHEVROLET	CAMARO	PC	2.0	M6,SA8	KGMXR0133880	1	P
CHEVROLET	MALIBU	PC	2.0	A9	KGMXR011030C	1	P