

GENERAL MOTORS LLC.

Executive Order: A-006-2188

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		EST GROUP		VEHIC	VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2020	LG	MXJ01.6356	I	LDT2, PC DEDI				SINGLE FUEL HICLE		DIESEL			
USEFUL LIFE (miles) VEHICLE EM							ATE	GORY	INTERIM / IN	INTERMEDIATE IN-USE STD			
EXH/ORVR EVAP				FTP SF			TP FTP			SFTP			
150000 *				LEV3	ULEV125 LEV 3 COMPO			OMPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD S	TATUS	EN	ENGINE DISPLACEMENT (L)		
DFI, TC, CAC, OC+DPF, EGR, EGRC, SCRC, NOXS(2), PMS, RDQS								FULL	*				
*					1	PARTIAL		*	1.6				
* *								TIAL WITH	ALL MODELS				
		E	VAPO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATION	ı			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
0 : · · •					*			33	*		*		
			N. S. S. S. S. S.		EMISSION C	REDIT	INFO	ORMATION					
	OG+NO EDIT FO WAF		EDIT FOR NON-PZEV ZERO-EVAP			NMOG CI	REDIT FOR DOP	2 1	OPTIONAL EXH. STD FOR WORK TRUCKS				
N N							И				N		
				NMOG	AND FLEET	AVE	RAGI	INFORMA	TION				
NMOG RAF	RAF NMOG/NMHC RATIO PC+LDT (0-						3750 LVW)		+NOX FLEET S1 3751 LVW-8500 R) + MDPV (g/mi		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	*		*	0	.065			0.074		8★.		

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).

BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models have been determined to have four (4) deficiencies. These vehicle models are approved subject to the manufacturer paying a fine of \$50 per vehicle for the third and fourth deficiencies for vehicles in the listed test group that are produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2020 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

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 _

Allen Lyons, Chié کر

Emissions Compliance, Automotive Regulations and Science Division



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		_	_	-		_	-			de la companya del companya de la companya del companya de la comp	AT RESIDENCE AND ADDRESS OF THE PARTY OF THE	-		CATION T, 50°F, 2		VELS		
		FUEL TYPE		H4: m nonoxio djustm)RVR [ethande; NO ent fa	e; NMO Ox: oxid octor; 2D (gallon o	G: non-0 es of nit 0HS/3DH dispense	CH4 organgerogen; H S [g HCd]: on-bo	anic g ICHO: (test)	gas; HC: h : formalde : 2/3 days refueling v	nydrocar ehyde; P s diurnal vapor rec	bon; NN M: part +hot-so covery;	//HC: iculate ak; R g: gra	non-CH4 e matter; I L [g HC/m am; mg: m upplemen	HC; (RAF: ii]: rur illigra	reactivening loom; m; mi:	rity oss;	
					NMHC+NOx (g/mi)			CO (g/mi)		N(g/	HCH(PM (g/mi)			
25.5	15 BO		CI		CERT STD		CERT STD		D	CERT STD		CERT		STD C		ERT	STD	
TP@5	0K			*		*	*	*		*	*		*	*		*	*	
FTP@L	JL DIES			0.104	1 0	.125	0.1	2.	1	*	*	*		4	0.000		0.003	
50°F @	4K	*		*		*	*	*		*	*	*		*		45.57		
				EUEL TYPE					NMHC+NOx (g/mi			i)	cc		(g/mi)			
countries on a commit				FUEL TYPE						CE	RT ST		D	CERT			STD	
HWFET @ 50K				*						*		*	*					
HWFET @ UL				DIESEL-EPA						0.0	0.004 0.1		25	Porter and and and		7 104 105		
20°F @ 50K				*						ALC: PERSON		S. double skill		*			*	
		-	s	FTP E	XHAL	JST EM	ISSION	STAND	ARDS	S AND C	ERTIFIC	ATION	LEVE	ELS				
10191			31354	T -	7.11.11.10		JS06			1	SC03				OMPO	OSITE		
	FUEL TY	YPE		NMHC+NOx (g/mi)			CO PM (g/mi) (mg/r			NMHC+NOx (g/mi)					MHC+NOx CO (g/mi) (g/mi)		PM (mg/mi)	
O 41/		, CE					*			,		*						
@ 4K							*					*						
					*		*	0	. 4	,		*		0.112		0.2	*	
@ UL	DIESEL-	ESEL-EPA STD				*	6		,	,	*		0.083		4.2	*		
				450	Sinc.	10 M	Take.				pin March		0.120					
		WH	OLE V	EHICL	E EV	APORA	TIVE EN	MISSION	STA	NDARDS	S AND C	ERTIF	CATI	ON LEVE	LS			
						W	HOLE V	EHICLE	EVA	PORATI	E TEST	ING						
EVAPORATIVE FAMILY		FUEL TY				DHS (g	g/test) @ UL			2DHS (g/test)		@ UL		RL (g/i		mi) @	UL	
						RT S	TD	FEL	CE	RT STD		FEL		CERT		T	STD	
*			*	*		*	*		*	*	*		* *			*		
C	RVR / FU	EL C	ONLY /	CANIS	STER	BLEED	EVAPO	PRATIVE	EEMI	SSION S	TANDA	RDS A	ND C	ERTIFICA	TION	LEVE	ELS	
				***************************************										ER BLEE				
EVAPORATIVE FAMILY		E ORVR		R (g/gallon)) UL	FUEL TYPE		10000	DHS RIG TEST (g/test) @ UL		2DHS RIG (g/test) (ANISTER	
		FUEI		PE C	ERT STD		1		75.50	ERT	STD	CER				RT	STD	
*			*		*	*		*		*	* *		•		* *		120010-00	
		EFF	ECTIV	E LE	AK D	IAMET	ER ST	ANDAR	D AI	ND CER	TIFICA	TION L	EVE	L (INCH	ES)			
EVAP	ORATIVE	FAI	MILY		LEA	K FAMII	LY			CERT					STD)		
*				*					*					*				



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: 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; NMOG + NOx Fleet Ave. Credit for Extended Warranty; N = no credits, Y = credits, S = credits for some/select models

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CHEVROLET	CRUZE	PC	1,6	A9	*	1,	\$
CHEVROLET	CRUZE HATCHBACK	PC	1.6	A9	*	1	\$
CHEVROLET	EQUINOX AWD	LDT2	1.6	A6	*	1	\$
CHEVROLET	EQUINOX FWD	LDT2	1.6	A6	*	1	\$
GMC	TERRAIN AWD	LDT2	1.6	A6	*	1	\$
GMC	TERRAIN FWD	LDT2	1.6	A6	*	1 .	\$