

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 GR		FOR	MATION					
MODE		EST GROUP	4.1 G	VEHIC	LE CLASS(ES)		FUEL C	ATEGORY		FUEL TYPE		
2020) LF	MXV01.6DC5		ina di sena Mangalangan Mangalangan	PC	PC			SINGLE FUEL HICLE		GASOLINE		
	USEFU	LIFE (miles)	na ena	VE	ICLE EMIS	SION C	ATE	GORY	INTERIM / IN	TERM	ERMEDIATE IN-USE STD		
EXH	I/ORVR	EVAP	8 1	FTP	11	SF	SFTP FTP			SFTP			
150000 150000 LEV3 ULEV70 LE							3 CC	MPOSITE	PM	din 9	PM		
SPE	CIAL FE	EATURES & EX				OL		OBD S	TATUS	EN	GINE DISPLACEMENT		
1	DFI,	WR-HO2S, HO	2S, W	U-TWC, T	WC, TC, C	AC		FULL	* *	Sec. 1			
*			*				P	ARTIAL	1.6				
*			*					TIAL WITH FINES	* !				
		E	VAPC	RATIVE &	REFUELIN	G (EVA	P/OR	VR) FAMILY					
EVA	P / ORV	R FAMILY	EVA	PORATIVI	E STD CATE	EGORY			SSION STD E CLASS	SF	PECIAL FEATURES		
1	LKMXR01	40DCG		LEV 3	OPTION1			P	HCT				
					EMISSION	CREDIT	INFC	RMATION	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1990 -		-		
	EDIT FO	X FLEET AVE DR EXTENDED RRANTY			EDIT FOR I		ZEV	NMOG CI	REDIT FOR DOF		OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N		N N						
				NMOG	AND FLEE	TAVE	RAGE	INFORMA	ΓΙΟΝ				
NMOG RAF	CH4 FTP RAF NMOG/NMHC RATIO RATIO (g/mi)					(0-375					D NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10	6	*		0.065			0.074		*		

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 at EI Monte, California on this $_28^{m}$ day of June 2019.

Allen Lyons, Chief

Emissions Compliance, Automotive Regulations and Science 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

	FUI	EL TY	'PE	000 m	iles; F	: degre	es Fah	renheit; F	TP: fee	deral te	est proc	edu	re; SFTP): sup	plemen	tal F	TP		
				NMOG+NOx (g/mi)				CO (g/mi)			NOx g/mi)		HCHC (mg/m						
				CER	r.	STD	CER	T ST	D a	CERT	S	٢D	CER	Т	STD	C	ERT	STD	
FTP@5	юк *			*		*	*	*	· · · ·	*	1	۲	*	*			*	****	
FTP@l	FTP@UL GASOLINE- TIER3 E10			0.04:	2 0	0.070	0.5	5 1.	7	*		•	*	4		0.001		0.003	
50°F @4K GASOLINE- TIER3 E10		0.05	5 0	.140	0.5	5 1.	7	*		•	*		16	No.	(buller) Frankling	the W			
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	2843) 				10		L			С	ERT		STD	-	CEF	RT		STD	
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HWFET @ UL GZ				GAS	SOLIN	E-TIE	R3 E10)		0	. 027	1	0.070						
20°F@50K COLD CO E10			E10	REGU	LAR G	ASOLIN	NE (TIE	R3)	透明高	$b_{i}^{(d-1)} \approx e_{i}^{(d+1)}$		3.55 1.52 1.52	机能中	0.	6	1	10.0		
			S	FTP E	XHAL	JST EN	ISSION	STAND	ARDS	AND	CERTIF	ICA	TION LE	EVEL	S	-			
	to determine the second s				US06					SC03		1947 13 10 10 10 10 10 10	COMPOSITE						
	FUEL 1	FUEL TYPE			NMOG+NOx (g/mi)		CO (g/mi)			NMOG+NOx (g/mi)		x	CO (g/mi)		NMOG+NOx (g/mi)		CO (g/mi)	PM (mg/mi)	
@4K *			CERT	CERT		*					*		*						
•		5			*		*				*		*	*					
				CERT		*	*			4		*		*	C	0.048		0.6	*
@ UL							6	*		* *		C	0.083		4.2	*			
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						N	HOLE	VEHICLE	EVAP	ORAT	IVE TE	STI	NG		_				
	PORATIVE FUEL TYPE			3	3DHS (g/test) @ UL				2DHS (g/test) @			@ UL		RL (g/mi) @ U		UL			
				CEF	хт	STD	FEL	CE	RT	T STD		FEL		CE	CERT		STD		
LKMXR0140DCG GASOLINE LEV3 E1			0.2	258 0.350		*	0.2	287	0.35	0	*		0.02			0.05			
C	DRVR / F	UEL	ONLY /	CANI	STER	BLEE	D EVAF	ORATIV	E EMI	SSION	STAN	DAF) CEF	RTIFICA	TIO	N LEVE	LS	
									F	UEL O	NLY E	VAF	& CAN	STE	R BLEE		-		
		E ORVR (g/gallon)			lon) @	DL 🧕	FUEL TYPE			3DHS RIG (g/test) @				2DHS RIG T (g/test) @					
		FL	JEL TYP	PE C	ERT	STD			CE	RT	STD		CERT		STD	CI	ERT	STD	
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EVAPORATIVE FAMILY		CERT	STD		
LKMXR0140DCG	LKMXR0140DCG-JF1	0.00	0.02		
8500#ALVW; MDV: medium-d duty passenger vehicle; HDV: emission limit; GVWR: gross v ULEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; H/ SCRC/SCR-N or SCRC-NH3: continuous/periodic trap oxidiz heated/oxygen sensor; WR-H0 RDQS: reductant quality senso secondary air injection (belt dr direct/indirect fuel injection; TC fines on-board diagnostic; DO suffix: series; CNG/LNG: comp E10: "10%" ethanol ("90%"gas continuously variable transmis automated manual-selectable.	heavy-duty vehicle; ECS: emissio rehicle weight rating; LVW: loaded er ULEV; ZEV: zero-emission veh AC: HC adsorbing catalyst; WU: w selective catalytic reduction-urea/ ter; DPF: diesel particulate filter (a D2S or AFS: wide range/linear/hea or; NH3S: ammonia sensor; EGR: iven)/(electric driven); PAIR: pulse C/SC: turbo/super charger; CAC: or R: direct ozone reducing; HCT: hy pressed/liquefied natural gas; LPG soline) fuel; A: automatic (with lock ision: SCV: selectable continuous)	000#GVWR; MDV5: MDV 1000 n control system; CERT: certific vehicle weight; ALVW: adjusted cle; TZEV: transitional ZEV; TV arm-up catalyst; NAC: NOx ads ammonia; NH3OC: ammonia ox ctive); GPF: PM filter for spark- ited air-fuel ratio sensor; NOXS exhaust gas recirculation; EGR d AIR; SFI/MFI: sequential/mult harge air cooler; FFH: fuel fired drocarbon trap; BCAN: bleed ca : liquefied petroleum gas; E85: up); M: manual transmission; S. / variable transmission; AM: au ion; AER: all-electric range; EA	1-14000#GVWR; MDPV: medium- cation; STD: standard; FEL: family d LVW; LEV: low emission vehicle; VC/OC: 3-way/oxidizing catalyst; sorption catalyst; SCR-U or xidation catalyst; CTOX/PTOX: ignited engine; HO2S/O2S: S: NOx sensor; PMS: PM sensor; RC: EGR cooler; AIR/AIRE: tiport fuel injection; DFI/IFI: I heater; F/P/\$: full/partial/partial wit arbon canister; prefix 2: parallel; (2) "85%" ethanol ("15%"gasoline) fuel A: semi-automatic transmission; CV tomated manual transmission; AMS ER: equivalent AER; PHEV: plug-in		

MAKE		MO	DEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
		OPT	IMA	PC	1.6	AMS7	LKMXR0140DCG	1	P
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