

Executive Order: A-010-2171

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 INFO	RMA	TION					
MODE	- 1 Th	ST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2019	KF	MXT02.73JK		ID	T3, LDT4		DED	DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
1	JSEFUL	LIFE (miles)		VEH	IICLE EMISS	ION CAT	I CATEGORY INTERIM / INTERMEDIATE IN-USE						
EXH	/ORVR	EVAP		FTP SF			SFTP	TP FTP			SFTP		
15	0000	150000		LEV3	ULEV70	LEV 3	COMP	OSITE	•		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L	<	OBD S	TATUS	EN	IGINE DISPLACEMENT			
1 2TWC, DFI, SFI, 2WR-HO2S, 2HO2S, 2TC, CAC, EGR, EGRC							FU	FULL *					
*			*				PAR	TIAL	ALL MODELS	71	2.7		
· · · P								L WITH	*	1			
		EV	APOF	RATIVE &	REFUELING	(EVAP/	ORVR	) FAMILY	INFORMATIO	N			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						GORY		EVAP EMISSION STD VEHICLE CLASS SPECI			PECIAL FEATURES		
K	FMXR02	00GDG	LE'	V 3 OPTION2 WITH FEL				LDT3			HCT		
K	FMXR02	60NDP	LE	V 3 OPTI	ON2 WITH	FEL	LDT3				HCT		
				ı	EMISSION C	REDIT IN	FORM	MATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR ZERO-E						ON-PZEV NMOG CREDIT FOR DOR			D 1	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N		N N						
				NMOG	AND FLEET	AVERA	GE IN	FORMA	TION				
NMOG RAF	I NMOG/NMHC I PC+I DT /D-37				0-3750 L		W) LDT (3751 LVW-8500 MDV (10,001-			MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		*	0	.072			0.083		*		
Soo the	Attach	mant for Vahia	Jo Ma	dolo Eu	anarativa Ea	mily Er	aina	Diaplace	mont Emissis	- 00	ntrol Systems Phase		

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 El Monte, California on this \_\_\_\_\_ day of October 2018.

\_ day or october 20

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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## **ATTACHMENT**

	EXH												ATION I		3	
		EXH					-						50°F, 20°	-		
	FU	FUEL TYP		monoxide adjustme ORVR [g	; NOx: ox nt factor; a HC/gallor	ides of ni 2DHS/3D dispense	trogen; H HS [g HC ed]: on-bo	CHO: fo thest]: 2/ pard refu	malde 3 days eling v	ehyde; F diurnal apor re	M: particu +hot-soak covery; g:	late ; RL gram	on-CH4 Hematter; RA [g HC/mi]: n; mg: milli oplemental	F: reactive running I gram; mi:	vity oss;	
					G+NOx /mi)		CO (g/mi)			Ox mi)	A	HCH mg/r		-	M mi)	
			Ī	CERT	STD	CER	T ST	D C	ERT	STD	CER	T	STD	CERT	STD	
FTP@50	K	*		*	*	*	*		*	1			*	*	*	
FTP@U	1 1	OLIN ER3 E		0.0595	0.070	1.29	9 1.	7	•	*	•		4	*	0.01	
50°F @4	14	OLIN ER3 E		0.0628	0.140	0.48	2.	1	•	*	0.7		16 .			
					FUEL TY	PF					Ox (g/mi)		. (	CO (g/mi	)	
									RT	STD		CERT		STD		
HWFET	@ 50K				*				1		*			200		
HWFET	T@UL			GASC	LINE-TI	ER3 E10			0.0	223	0.070			•	-	
20°F @	@ 50K	CC	OLD C	0 E10 F	EGULAR	GASOLIN	E (TIEF	R3)					1.87		12.5	
				SFTP EX	HAUST E	MISSION	STAND	ARDS A	ND C	ERTIFIC	ATION L	EVEL	.s			
			10			US06				SC03			CO	<b>MPOSITE</b>		
	FUEL 1	YPE			G+NOx /mi)	CO (g/mi)		M /mi)	NMOG (g/i	s+NOx mi)	CO (g/mi)		OG+NOx (g/mi)	CO (g/mi)	PM (mg/mi	
@ 4K	*	, CERT		RT +					1		*				-	
-					*	*.	4		1		*					
			CER	T	* 1	*	4	*	1	•	*	0.0956		1.25	*	
@ UL	GASOL TIER3		STD		•	. *		*	*		*		0.090	4.2	*	
			BIN				1 8	C	V <sub>B</sub>		A STATE OF		0.100			
		WH	OLE '	VEHICLE	EVAPOR	ATIVE	MISSION	STANE	DARDS	S AND	CERTIFIC	ATIO	N LEVEL	S		
						VHOLE \	/EHICLE	EVAPO	RATI	E TEST	TING					
	DRATIV MILY			TYPE 3DHS		(g/test) @ UL			2DHS (g/test		t) @ UL		RL (g/mi) @		) UL	
					CERT	STD	FEL	CER	Т	STD	FE	L_	CERT		STD	
KFMXR	0200GD		CASOL PIER3		.2989	0.500	0.500	*			0.5	0.500 0.00		0	0.05	
KFMXR0260NDP			CASOL TIER3		.2537	0.500	0.500	0.208	34	0.500	0.5	00	0.00	0	0.05	



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4					FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTE TEST (g/test) @ 4				
	<b>FUEL TYPE</b>	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
KFMXR0200GDG	GASOLINE- TIER3 E10 0.022 0.		0.20	GASOLINE- TIER3 E10	*	*	*	*	0.0100	0.020			
KFMXR0260NDP	GASOLINE- TIER3 E10	0.014	0.20	GASOLINE- TIER3 E10	*	*	*	/*	0.0060	0.020			
	EFFECTIVE	LEAK D	IAMET	ER STANDAR	D AND CE	RTIFICA	TION LEV	EL (INC)	(ES)				
EVAPORATIVE FAMILY		LEA	KFAMIL	Υ .	CERT				STD				
KFMXR0200GDG		KFMXR0	200GDG	-001	* .			0.02					
KFMXR0260	NDP	KFMXR0	260NDP	-001	*			0.02					

thinot 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

<b>2019 MODEL</b>	YEAR: VEHICLE	MODELS	INFORMA	TION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT4	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT4	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT3	2.7	SA	KFMXR0200GDG	1	P
· FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT4	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT4	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 2WD	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 2WD	LDT3	2.7	SA .	KFMXR0260NDP	1	P



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## 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	OBD
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 4WD	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 4WD	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0260NDP	1	P