

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-19-095;

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 GRC	UP II	FOR	MATION						
MODE YEAI		TEST GROUP	VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL TYPE			
2021	LM	FMXT02.02JU			LDT2		DEDICATED SINGLE FUEL VEHICLE				GASOLINE			
USEFUL LIFE (miles) VEHICLE EMISSION							CATE	MEDIATE IN-USE STD						
EXH	I/ORVF	R EVA		FTP SF			TP FTP			SFTP				
19	50000	15000	0	LEV3	ULEV70	LEV	3 C	OMPOSITE	*		PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS	E	ENGINE DISPLACEMENT			
1	TW	C,HO2S,WR-HO	2S,CA	C, TC, DFI	, EGR , EGRC			FULL	ALL MODELS					
*	*							PARTIAL *			2.0			
*	* *							ARTIAL WITH *			1			
		I	VAPC	RATIVE &	REFUELING	(EVA	P/OR		(INFORMATIO	N				
EVA	AP / OR	VR FAMILY	EVA	PORATIVE	E STD CATE	GORY	,	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
1	MFMXR0	135NDF	L	EV 3 OPTI	ON2 WITH	FEL		LE	*					
				I	EMISSION CI	REDIT	r info	ORMATION						
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY						ZEV	EV NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS			
		N			N			N N						
				NMOG	AND FLEET	AVE	RAG	E INFORMA	TION					
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO	C HCHO/NMHC RATIO NMOG+NOX FL PC+LDT (0-374 (g/mi)											
*	*	1.10		*	* 0.058 0.065						*			

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.)



## 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.

This Executive Order hereby cancels and supersedes Executive Order A-010-2288 dated December 8, 2020.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this <u>29th</u> day of December 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

# 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

		NMOG+N (g/mi)			Dx CO (g/mi)			NOx (g/mi)		HCH (mg/n			PM (g/mi)	
			CERT	STD	CERT STD C		CERT	STD	CERT		STD	CEF	RT	STD
FTP@50K		*	*	*	*	*	*	*		*	* *			*
FTP@UL		OLINE- R3 E10	0.046	0.070	0.6	1.7	*	*		1	4	0.0	02	0.003
50°F @4K		OLINE- R3 E10	0.050	0.140	0.2	1.7	*	*		1	16			
					NN	NMOG+NOx (g/mi)			CO (g/mi)					
			FUEL TYPE						ST	D	CER	Г		STD
HWFET @ 50K			*	* *										
HWFET @ UL		GASOLINE-TIER3 E10						19	0.0	70				
20°F @ 50K		COLD C	CO E10 RE	GULAR GA	ASOLINE	(TIER3)					0.5	5	:	12.5

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			351	РЕХНА	USIE	1122101	1 STANDA	ARD2	AND	CERTIFIC	ATION LE	VELS				
						US06				SC03		C	OMPOS	ITE		
	FUEL TYPE			NMOG+NOx		со	PI	М	NMOG+NOx		со	NMOG+NC	X C	0	PM	
				(g/mi	)	(g/mi)	(mg	/mi)	(	g/mi)	(g/mi)	(g/mi)	1\g)	ni)	(mg/mi)	
@ 4K	24K ★		ERT	*		*				*	*					
-			STD	*		*				*	*					
		C	ERT	*		*	* 1		*		*	0.037	0.6		*	
@ UL	DUL GASOLINE		STD	*	*		* 6		*		*	0.077	4.	2	*	
			BIN									0.080				
		WHO	LE VEH	ICLE EV	APOR	ATIVE E	MISSION	STAN	IDAR	DS AND C	ERTIFICA	TION LEVE	ELS			
					V	HOLE V	<b>VEHICLE</b>	EVAP	ORA	<b>FIVE TEST</b>	ING					
	ORATIVE			E :	3DHS (g/		(g/test) @ UL			IS (g/test)	@ UL	RL (g/mi) @ UI			UL	
				CERT		STD	) FEL CEI		रा	STD	FEL	CE	RT	r STD		
MFMXF	R0135NDF		SOLINE ER3 E1(	101	0.157 0		0.400	0.1	48	0.400	0.40	0.	0.00		0.05	
0	ORVR / FUI	EL ON	NLY / CA	NISTER	BLEE	D EVAP	ORATIVE	EMIS	SION	I STANDA	RDS AND	CERTIFICA	TION L	EVE	LS	
								FU	JEL C	NLY EVA	P & CANIS	STER BLEE	D			
	EVAPORATIVE FAMILY		RVR (g/	g/gallon) @ UL		FUE			HS RIG TEST g/test) @ UL			RIG TEST t) @ UL		ED CANISTER [ (g/test) @ 4		
		FUE	L TYPE	CERT	STD			CE	RT	STD	CERT	STD	CERT	•	STD	
MFMXF	R0135NDF		OLINE- R3 E10	0.01	0.20		OLINE- R3 E10	*	r	*	*	*	0.014	1	0.020	



EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
MFMXR0135NDF	MFMXR0135NDF-001	*	0.02						

\*: 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; HP/LP EGR: High/Low Pressure EGR; 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC; SCR coated DPF); 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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD					
FORD	EDGE AWD	LDT2	2.0	SA8	MFMXR0135NDF	1	F					
FORD	EDGE AWD	LDT2	2.0	A8	MFMXR0135NDF	1	F					
FORD	EDGE FWD	LDT2	2.0	A8	MFMXR0135NDF	1	F					
LINCOLN	NAUTILUS AWD	LDT2	2.0	SA8	MFMXR0135NDF	1	F					
LINCOLN	NAUTILUS AWD	LDT2	2.0	<b>A</b> 8	MFMXR0135NDF	1	F					
LINCOLN	NAUTILUS FWD	LDT2	2.0	SA8	MFMXR0135NDF	1	F					
LINCOLN	NAUTILUS FWD	LDT2	2.0	A8	MFMXR0135NDF	1	F					