

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 GRO	UP IN	FOR	MATION					
MODE YEAR		TEST GROUP			VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2021	MF	MXT02.33MC		LDT3				DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
(	USEFUL	. LIFE (miles)		VEHICLE EMISSION CATEG				GORY	INTERIM / IN	TE	ERMEDIATE IN-USE STD		
EXH	/ORVR	EVAP			FTP		SF	SFTP FTP			SFTP		
15	0000	150000	)	LEV3	ULEV125	LEV	3 CC	MPOSITE	*		PM		
SPE	CIAL FE	ATURES & EX	HAUS Stems		ON CONTRO	L		OBD S	TATUS		ENGINE DISPLACEMENT		
1	TWC	,DFI,WR-HO2S	S, TC, CAC	, EGR , EGRC			FULL	ALL MODELS					
*			*				P	ARTIAL	*		2.3		
*	* PARTIAL WITH * FINES												
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	P / ORV	R FAMILY	EVA	PORATIVE	E STD CATE	GORY	,		SSION STD E CLASS		SPECIAL FEATURES		
м	IFMXR01	35NDG	LE	V 3 OPTI	CON2 WITH	FEL		LI	)ТЗ		*		
м	IFMXR01	35NDV	LEV 3 OPTION2 WITH FEL				LI	от3		*			
				l	EMISSION C	REDIT	INFO	ORMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG C	REDIT FOR DO	R OPTIONAL EXH. STD FOR WORK TRUCKS			
		N			N				N		N		
				NMOG	AND FLEE	T AVE	RAGI	E INFORMA	TION				
NMOG RAF	CH4 RAF				0-375								
*	*	1.10		*	0	.058			0.065		*		
Soo th	o Attach	mont for Vohi		adala Evr	- 	mily	Engir	Displace	mont Emissio		ontrol 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.)



### 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 on this <u>27th</u> day of October 2020.

Allen Zyons, 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 (g/i		CO (g/mi)			NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CER	RT	STD
FTP@50K	*		*	*	*	*	*	*	*	*	*		*
FTP@UL	GASOLINE- TIER3 E10		0.052	0.125	0.34	2.1	*	*	1	4	0.00	01	0.003
50°F @4K		OLINE- R3 E10	0.0406	0.250	0.67	2.1	*	*	1.8	16			
					-		NN	NMOG+NOx (g/mi)			CO (g/mi)		
				FUEL TYP	E		CE	RT STD		CER	т	r STD	
HWFET @	) 50K			*			*	,	*				
HWFET @	@ UL		GASOI	INE-TIER	R3 E10	0.0	571	0.125					
20°F @ 50K		COLD	CO E10 RE	GULAR GA	ASOLINE	(TIER3)				1.3	6	1	2.5

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06						SC03			CON	IPOS	ITE	
	FUEL TYPE		N		OG+NOx	СО	F	РМ		)G+NOx	со	NM	NMOG+NOx		0	PM
				(	(g/mi)	(g/mi)	(mg	g/mi)	(9	g/mi)	(g/mi)		(g/mi)	1\g)	mi)	(mg/mi)
@ 4K	*		CERT		*	*				*	*					
-			STD		*	*				*	*					
	GASOLINE- TIER3 E10		CERT		*	*	* 1		*		*	0.0667		0.	42	*
@ UL			STD	*		*		6		*	*	0.077		4.2		*
			BIN									0.100				
		WH	OLE VE	HICL	E EVAP	ORATIVE E	MISSIO		DAR	DS AND C	CERTIFIC	CATIO	N LEVELS	3		
						WHOLE	VEHICLE	EVAPO	ORAT	TIVE TEST	ING					
	EVAPORATIVE FAMILY		FUEL TYPE		3DH	S (g/test) (	(g/test) @ UL			2DHS (g/test) @ UL				RL (g/mi) @ UL		
					CERT	STD	FEL	CER	т	STD	FE	Ľ	CERT		STD	
MFMXF	R0135NDG			DLINE- R3 E10 0.1653 0.500 0.500 0.1350 0.500 0.500 0.000		0.000 0		0	.05							
MFMXF	MEMXB0135NDV GASO		ASOLIN IER3 E		0.1653	0.500	0.500	0.13	50	0.500	0.5	0.500 0.000		0.000 0		.05



ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS															
		FUEL ONLY EVAP & CANISTER BLEED													
EVAPORATIVE FAMILY	ORVR (g/g	FUEL TYPE			IG TEST ) @ UL		IG TEST :) @ UL	BLEED C TEST (g/t							
	FUEL TYPE CERT STD			CERT	STD	CERT	STD	CERT	STD						
MFMXR0135NDV	GASOLINE- TIER3 E10 0.171 0.20		GASOLINE- TIER3 E10		*	*	*	*	0.0107	0.020					
MFMXR0135NDG	GASOLINE- TIER3 E10 0.17		0.20	GASOLINE- TIER3 E10		* *		*	*	0.0107	0.020				
E	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)														
EVAPORATIVE	Y		CE	RT		STD									
MFMXR0135	NDV	MFMXR0135NDV-001				k	r		0.02						
MFMXR0135	NDG	MFMXR0135NDG-001				k	r		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/oxvoen 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%" éthanol ("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	RANGER	LDT3	2.3	SA	MFMXR0135NDG	1	F
FORD	RANGER	LDT3	2.3	SA	MFMXR0135NDV	1	F