

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	OUP IN	FORM	ATION	10000				
MODE		EST GROUP		VEHICL	E CLASS(E	ES)		FUEL C	ATEGORY		FUEL TYPE		
2021	MF	MXT02.52NG			LDT2		I		SINGLE FUEL HICLE		GASOLINE		
ι	JSEFUL	LIFE (miles)		VEH	ICLE EMISS	SION C	ATEG	ORY	INTERIM / IN	TER	RMEDIATE IN-USE STD		
EXH	EXH/ORVR EVAP				TP		SF	ſP	FTP		SFTP		
15	0000	15000	D	LEV3	ULEV70	LEV	3 CO	MPOSITE	*		PM		
SPE	CIAL FE	ATURES & EX			ON CONTRO			OBD S	TATUS	E	ENGINE DISPLACEMENT (L)		
1	1 TWC(2), WR-HO2S, HO2S, EGR, SFI							FULL	ALL MODELS	11			
*	*						P.	ARTIAL	*		2.5		
*			*					TIAL WITH FINES	1TH *				
		E	VAPC	RATIVE &	REFUELING	G (EVA	P/OR	VR) FAMIL	INFORMATION	4			
EVA	P / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	·		SSION STD E CLASS	;	SPECIAL FEATURES		
M	IFMXR01	.30NDF	L	EV 3 OPTI	ON2 WITH	FEL	LDT2				HCT		
				E	MISSION C	REDIT		RMATION					
	EDIT FO	OX FLEET AVE OR EXTENDED RRANTY		- 10. A. S.	EDIT FOR I		ZEV	NMOG C	REDIT FOR DO	R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
		and this contained the		NMOG	AND FLEE	TAVE	RAGE	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO	нс	HO/NMHC RATIO	NMOG+NO PC+LDT			V) LDT	+NOX FLEET S (3751 LVW-8500 R) + MDPV (g/m		D NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*		0.058	6		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.

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

Executed at El Monte, California on this $12^{\frac{12}{2}}$ day of May 2020.

yons, Chief

TEmissions Certification and Compliance Division



FORD MOTOR COMPANY

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

FUEL TYPE

N 2 8 10 2 10												
	NMOG+NOx (g/mi)		CO NOx (g/mi) (g/mi)		a (19. 19)	HCHO (mg/mi)		PM (g/mi)				
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K		*	*	*	*	*	*	*	*	*	*	*
FTP@UL		NLINE- R3 E10	0.051	0.070	0.6	1.7	*	*	0	4	0.000	0.003
50°F @4K		*	*	*	*	*	*	*	*	*		
					-		N	NMOG+NOx (g/mi)			CO (g/mi)
				FUEL TYP	E		CE	RT	STD	CEF	रा	STD
HWFET @	50K			*			te l	r	*			$\mathbb{P}[\lambda]^2$
HWFET @	HWFET @ UL GASOLINE-TIEF		R3 E10		0.0	0.040		Sec. 1				
20°F @ \$	50K	COLD	CO E10 R	EGULAR G	ASOLINE	(TIER3)	2.000	Prove P		0.	9	12.5
			SFTP EXH	AUST EM	ISSION S	TANDARI	DS AND CI	ERTIFICA	TION LEVE	LS		
								\$100004061	1	14.53	the second s	

		1205		US06		SC03		COM	POSITE	
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	0	*	*	0.046	1.3	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.077	4.2	*
		BIN				1.		0.110		

		-	WHOLE							
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test)	@ UL	2DHS (g/test) @ UL			RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD	
MFMXR0130NDF	GASOLINE- TIER3 E10	0.183	0.400	0.400	0.143	0.400	0.400	0.000	0.05	

ORVR / FUEL ONLY / CAL	TER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS
ontri one oner on	

	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY				FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
MFMXR0130NDF	E10-EPA	0.03	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.009	0.020		

	~		1 1-	~	general a				
	CA	1 L		0	K	N	-	A	
1	AIR	RES	OU	RCE	S	80	A	RD	

FEFECTIV	VELEAK DIAMETER STA	NDARD AND CERTIFICATION L	
EVAPORATIVE FAMILY			
EVAPORATIVE FAMILT	LEAK FAMILY	CERT	STD
MFMXR0130NDF	MFMXR0130NDF-001	*	0.02
DT<6000#GVWR,3751-5750 500#ALVW; MDV: medium-o uty passenger vehicle; HDV: mission limit; GVWR: gross ILEV: ultra LEV; SULEV: sup DSTWC: adsorbing TWC; H CRC/SCR-N or SCRC-NH3: ontinuous/periodic trap oxidi: eated/oxygen sensor; WR-H DQS: reductant quality sens GRC: EGR cooler; AIR/AIRE iel injection; DFI/IFI: direct/ir JI/partial/partial with fines on refix 2: parallel; (2) suffix: se evice (ex. DPF-SCRC: SCR thanol ("15%"gasoline) fuel; automated manual transmissi AER: equivalent AER; PHEN i = credits, S = credits for sor	50#LVW; LDT3: LDT 6001-850 -duty vehicle; MDV4: MDV 850 /: heavy-duty vehicle; ECS: em a vehicle weight rating; LVW: lo per ULEV; ZEV: zero-emission HAC: HC adsorbing catalyst; W 3: selective catalytic reduction- lizer; DPF: diesel particulate fil HO2S or AFS: wide range/linea asor; NH3S: ammonia sensor; H 2E: secondary air injection (belt indirect fuel injection; TC/SC: tr n-board diagnostic; DOR: direct eries; a hyphen (-) between aft R coated DPF); CNG/LNG: con ; E10: "10%" ethanol ("90%"ga continuously variable transmis- sion; AMS: automated manual- EV: plug-in hybrid electric vehic pme/select models	car; LDT: light-duty truck; LDT1: LDT 10#GVWR,3751-5750#ALVW; LDT4: I 101-10000#GVWR; MDV5: MDV 10001 inission control system; CERT: certifica aded vehicle weight; ALVW: adjusted in vehicle; TZEV: transitional ZEV; TW VU: warm-up catalyst; NAC: NOx ads urea/ammonia; NH3OC: ammonia ox iter (active); GPF: PM filter for spark-ig ar/heated air-fuel ratio sensor; NOXS: EGR: exhaust gas recirculation; HP/L t driven)/(electric driven); PAIR: pulse urbo/super charger; CAC: charge air ct ozone reducing; HCT: hydrocarbon ter treatment ECS indicates multiple f npressed/liquefied natural gas; LPG: isoline) fuel; A: automatic (with lockup ssion; SCV: selectable continuously v -selectable transmission; OT: other tra ite; NMOG + NOx Fleet Ave. Credit fo	LDT 6001-8500#GVWR,5751- 1-4000#GVWR; MDPV: medium- ation; STD: standard; FEL: family LVW; LEV: low emission vehicle; C/OC: 3-way/oxidizing catalyst; orption catalyst; SCR-U or idation catalyst; CTOX/PTOX: gnited engine; HO2S/O2S: NOx sensor; PMS: PM sensor; P EGR: High/Low Pressure EGR; d AIR; SFI/MFI: sequential/multipor cooler; FFH: fuel fired heater; F/P/3 trap; BCAN: bleed carbon canister unctionalities of the after treatment liquefied petroleum gas; E85: "85%); M: manual transmission; SA: ser variable transmission; AM: unsmission; AER: all-electric range; r Extended Warranty: N = no credit

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	TRANSIT CONNECT USPS	LDT2	2.5	SA6	LFMXR0130NDF	1	F
FORD	TRANSIT CONNECT VAN	LDT2	2.5	SA6	LFMXR0130NDF	1	F
FORD	TRANSIT CONNECT WAGON LWB	LDT2	2.5	SA6	LFMXR0130NDF	1	F