

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		TEST GROUP VEHICLE CLASS(ES)						FUEL C	ATEGORY		FUEL TYPE			
2021	1 MFMXT02.02MI LDT2							FLEX-FUEL VEHICLE (FFV)				85% ETHANOL, GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISS						SION CATEGORY INTERIM /					TERMEDIATE IN-USE STD			
EXH	/ORVR	EVAP	FTP S				TP FTP			SFTP				
15	0000	15000	0	LEV3	ULEV70	LEV	3 C	OMPOSITE	MPOSITE *			PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS		ENGINE DISPLACEMENT			
1	TWC(2), WR-HO2S, HO2S, EGR, DFI							FULL	ALL MODELS					
*	*							PARTIAL *			2.0			
*			*				PAR	TIAL WITH	*					
		E	VAPO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N				
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES		
M	MFMXR0130NDF LEV 3 OPTION2 WITH FEL					FEL		LDT2				HCT		
				I	EMISSION CR	REDIT	INFO	ORMATION						
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY						ZEV	I NMOC COEDITEOD DOD				OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N			N N						
				NMOG	AND FLEET	AVE	RAG	E INFORMA	TION					
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO (GASOLINE)		HO/NMHC RATIO ASOLINE)	PC+LDT (0-3750 LV			W) LDT (3751 LVW-8500				IOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (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.

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

Executed at El Monto, California on this 1/1774 day of May 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

FORD MOTOR COMPANY Executive Order: A-010-2246 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

## 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

						G+NOx g/mi)			CO J/mi)			NOx g/mi)		HCHO (mg/mi)			Pl (g/r	
				ſ	CERT	ST	DC	ERT	ST	D	CERT	STE	CEI	RT	STD	CE		STD
FTP@5	OK		*		*	*		*	*		*	*	*		*	*		*
FTP@l		E85 (GAS) TIER		TE-	0.064 (0.0344	0.0		0.1 0.61)	1. (1.		* (*)	* (*)	0. (0.	-	4 (4)	* (*		0.003 (0.003)
50°F @	4K	* * * * * * *			*													
		T				EUE)	TVDE				N	MOG+N	Ox (g/mi	)		CO (	g/mi)	
					FUEL	TYPE				C	CERT STD			CERT		STD		
HWFE	T@:	50K				ł						*	*					
HWFE	T @	UL			(GAS	E85- DLINE-	EPA TIER3	E10)				050 0208)	0.07 (0.07	-				
20°F				CO E10 REGULAR GASOLINE (TIER3) (70% ETHANOL 30% EPA UNLEADED GASOLINE))										)	12.5 (12.5)			
				5	SFTP EX	HAUST	EMISS	ION S	TAND	ARDS	AND C	ERTIFIC	CATION L	EVE	S			
					US06						SC03 NMOG+NOX CO NI				COMPOSITE			
	FUE	UEL TYPE		L TYPE		IOG+NOx		CO		PM		NMOG+NOx		NM	NMOG+NOx		0	PM
					(9	ı/mi)	(g/	'mi)	(mg	ı/mi)	(g	/mi)	(g/mi)		(g/mi)	(g/	/mi)	(mg/mi)
@ 4K		*	CEF		г	*		*				*	*					
				STD		*		*				*	*					
				CER		*	_	*		*		*	*		.0671		.24	*
@ UL	E8	35-EF	A	STD		*		*		6		*	*		0.077	4	.2	*
				BIN	-	*		*	<u> </u>	k		*	*	-	0.110	2	. 6	*
@ UL		SOLIN ER3 E	INE- STD			*				6		*	*	0.0348		4.2		*
				BIN											0.110			
		and a second	WH	OLE V	EHICLE	EVAP	ORATIV	EEM	ISSION	STAN	DARD	SAND	CERTIFIC	ATIO	N LEVEL	S		
							WHOL	E VE	HICLE	EVAP	ORATI	VE TES	TING					
EVAPORATIVE				YPE	3DHS (g/test) @ UL				2DH	2DHS (g/test) @ UL			RL (g/mi) @ UL			UL		
						CERT	STD		FEL C		RT STD		FE	FEL		г	STD	
MFMXR	R0130	ONDF		ASOLI IER3	1	0.183	0.40	0 0	.400	0.1	.43	0.400	0.4	00	0.000		C	0.05

A	CALIE NIR RESO	ORN URCES B	<b>VIA</b> OARD		D MOTOR MPANY	1	Executive Order: A-010-2246 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4					
ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
FUEL ONLY EVAP & CANISTER BLEED												
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYP		3DHS RIG TEST (g/test) @ UL		RIG TEST t) @ UL		ANISTER est) @ 4K		
	FUEL TYP	E CERT	E CERT STD		CERT	STD	CERT	STD	CERT	STD		
MFMXR0130NDF	E10-EPA	0.03	0.20	GASOLINE TIER3 E1	· *	*	*	*	0.009	0.020		
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)												
EVAPORATIVE FAMILY LEAK FAMILY CERT STD												
MFMXR0130	NDF	MFMXR0	130NDF	-001	1	k		0.02				
*: not applicable; # LDT<6000#GVWR 8500#ALVW; MDV duty passenger ve emission limit; GV ULEV: ultra LEV; S ADSTWC: adsorbi SCRC/SCR-N or S continuous/periodi heated/oxygen ser RDQS: reductant of EGRC: EGR coole	8,3751-5750 /: medium-di hicle; HDV: WR: gross v SULEV: supe ng TWC; HA SCRC-NH3: c trap oxidiz nsor; WR-H0 guality sense	#LVW; LDT uty vehicle; heavy-duty ehicle weig er ULEV; Zf AC: HC ads selective ca er; DPF: di D2S or AFS or; NH3S: a	3: LDT ( MDV4: vehicle; ht rating EV: zero orbing c atalytic r esel part : wide ra mmonia	6001-8500#G MDV 8501-10 ECS: emissio ; LVW: loaded -emission veh atalyst; WU: v eduction-urea ticulate filter ( ange/linear/he sensor; EGR	WR,3751-57 000#GVWR; I on control syst I vehicle weigl icle; TZEV: tra varm-up cataly varm-up cataly varmonia; NH active); GPF: I ated air-fuel ra : exhaust gas	50#ALVW; MDV5: MDV em; CERT: ht; ALVW: a ansitional Zl yst; NAC: N 13OC: amm PM filter for atio sensor; recirculatio	LDT4: LD V 10001-14 certificatio djusted LV EV; TWC/C Ox adsorp tonia oxida spark-igni NOXS: No n; HP/LP E	F 6001-8500 4000#GVW on; STD: sta W; LEV: low DC: 3-way/o tion catalys tion catalys ted engine; Dx sensor; EGR: High/L	0#GVWR,5 R; MDPV: r indard; FEL w emission oxidizing cat t; SCR-U or t; CTOX/PT HO2S/O2S PMS: PM s Low Pressu	751- nedium- : family vehicle; alyst; r OX: : ensor; re EGR;		

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

					where the company of the second s		
MAKE	MAKE MODEL		ENGINE (L) TRANS TYPE		EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	TRANSIT CONNECT VAN FFV	LDT2	2.0	SA8	MFMXR0130NDF	1	F
FORD	TRANSIT CONNECT WAGON FFV	LDT2	2.0	SA8	MFMXR0130NDF	1	F
FORD	TRANSIT CONNECT WAGON LWB FFV	LDT2	2.0	SA8	MFMXR0130NDF	1	F