

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.

		2			TEST GRC	UP IN	IFOR	MATION					
MODE	- 1	TEST GROUP VEHICLE CLASS(ES)						FUEL CATEGORY			FUEL TYPE		
2020	LFMXD06.27CH MDV5						FLEX-FUEL VEHICLE (FFV)			85%	ETHANOL, GASOLINE		
	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATEC	GORY	INTERIM / IN	TERM	EDIATE IN-USE STD		
EXH	I/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
150000 150000			0	LEV3	LEV3 ULE (HOT1435 (LA92), SC FTP TEST CY			35 UC SC03,	*		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS	EN	ENGINE DISPLACEMENT (L)		
1		2TWC, 2HO	2S, 2	WR-HO2S,	SFI			FULL	ALL MODELS				
*	* *						P	ARTIAL	* 6.:		6.2		
*	* *							TIAL WITH FINES	*				
		E	VAPC	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	(INFORMATION	1			
EVA	P / ORV	R FAMILY	EVA	PORATIVE	E STD CATE	GORY			SSION STD E CLASS	SP	ECIAL FEATURES		
:	LFMXF02	10GDJ	L	EV 3 OPTI	ION2 WITH	FEL		MD	vv5		*		
					EMISSION C	REDIT	INFC	RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-F						PZEV NMOG CREDIT FOR DOR			2 1	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
	NMOG AND FLEET AVERAGE INFORMATION												
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO (GASOLINE		HO/NMHC RATIO ASOLINE)	ATIO LDT (3751 LVW-85			T STD NMOG+NOX FLEET \$ 0 GVW)MDV (8501-10000 GV ) (g/mi)					
*	*	1.10		*	C	0.074			*		*		
Sooth		mont for V/ok	iolo N	Indola Ev	anarativa Er	milu	Engi	no Dianlogo	mont Emissio	n Cor	trol 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 at El Monte, California on this <u>641</u> day of November 2019.

Miller Lyons, Chief J. A. A. Emissions Certification and Compliance Division



FORD MOTOR COMPANY

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### 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

									-				
			NMOG (g/i		CO (g/mi)			Ox mi)		HCHO (mg/mi)		PM (g/mi)	
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K		*	*	*	*	*	*	*	*	*	*	*	
FTP@UL	(GAS	5-EPA OLINE- .3 E10)	0.240 (0.221)	0.270 (0.270)	2.2 (2.9)	4.2 (4.2)	* (*)	* (*)	2 (1)	6 (6)	0.001 (0.004)	0.010 (0.010)	
50°F @4K	E85	5-EPA	0.499	0.675	1.0	4.2	*	*	16	20			
	(公開)				-		NN	IOG+NO	x (g/mi)		CO (g/mi	)	
		FUEL TYPE						RT	STD	CE	RT	STD	
HWFET @	) 50K			*			*	r	*			ang sa tan Ang ang sa tan	
HWFET @ UL		E85-EPA (GASOLINE-TIER3 E10)						.88 .82)	0.270 (0.270)			ala no constante No constante de la constante de	
20°F @ 50K		*								*		*	

			0.	ПЕКПИССТ	Linioololi								
							SC03		CON	COMPOSITE			
	FUEL TYP	ΡE		NMOG+NOx (g/mi)	CO (g/mi)		M NM J/mi)	/IOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi	
@ 4K	*		CERT	*	*			*	*				
0		Ī	STD	*	*		24130684	*	*		19		
	E85-EPA		CERT	*	*		*	*	*	0.251	2.7	1	
@ UL			STD	*	*		*	* * (		0.550	6.0	7	
			BIN		$\geq - \max_{\substack{i=1,\dots,r\\j \in I}} \max_{\substack{i=1,\dots,r}} \max_{i=1,$			$= \left\{ \left\{ x_{i}^{(1)}, x_{i}^{(2)}, x_{i}^{(2)}, y_{i}^{(2)} \right\} \right\} = \left\{ x_{i}^{(2)}, x_{i}^{(2)}, x_{i}^{(2)} \right\}$	$\phi_{ij} \phi_{ij} $	*		$\tilde{u}_{i} = \left[ $	
	GASOLINE- TIER3 E10		CERT	*	*		*	*	*	0.237	3.6	4	
@ UL			STD	*	*		*	*	*	0.550	6.0	7	
		Γ	BIN	(distant)					$\begin{bmatrix} 1 & 1 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$	*			
		WHO	OLE VE	HICLE EVAPO	ORATIVE E	MISSION	STANDA	RDS AND C	CERTIFIC	ATION LEVEL	S		
				WHOLE VEHICLE EVAPORATIVE TESTING									
	EVAPORATIVE FAMILY		UEL TY	PE 3DH	E 3DHS (g/test) @ UL				2DHS (g/test) @ UL			UL	
				CERT	STD	FEL	CERT	STD	FE	L CER	Г	STD	
LFMXI	T.FMXF0210GD.T		ASOLIN IER3 E	10 381	0.600	0.600	0.473	0.600	0.6	00 0.00		0.05	

A	FORD MOTOR COMPANY			N	Executive Order: A-010-2219 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4							
ORVR / FUI	EL ONLY / (	ANISTER	BLEED	EVAPOR	RATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS	
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		3DHS R	ONLY EVAI IG TEST ) @ UL	AP & CANISTER BLEN 2DHS RIG TEST (g/test) @ UL		ED BLEED CANISTI TEST (g/test) @		
	FUEL TYP	E CERT	STD			CERT	STD	CERT	STD	CERT	STD	
LFMXF0210GDJ	E10-EPA	*	*	GASOLI TIER3		*	*	*	*	0.006	0.030	
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)												
EVAPORATIVE FAMILY LEAK FAMILY CERT STD												
LFMXF0210		LFMXF0		*					0.02			
*: not applicable; # LDT<6000#GVWR 8500#ALVW; MDV duty passenger ve emission limit; GV ULEV: ultra LEV; § ADSTWC: adsorbi SCRC/SCR-N or S continuous/periodi heated/oxygen ser RDQS: reductant of EGRC: EGR coole fuel injection; DFI/I	2,3751-5750 /: medium-d hicle; HDV: WR: gross v SULEV: supp ng TWC; HA SCRC-NH3: c trap oxidiz trap oxidiz nsor; WR-H( quality sensor r: AIR/AIRE	#LVW; LD <sup>-</sup> uty vehicle; heavy-duty ehicle weig er ULEV; Z AC: HC ads selective c er; DPF: di D2S or AFS or; NH3S: a secondar direct fuel ii	T3: LDT MDV4: vehicle; ht rating EV: zerc orbing c atalytic r esel par s: wide ra mmonia y air inje njection;	6001-850 MDV 850 ECS: em ; LVW: loa e-emission atalyst; W eduction-u ticulate filt ange/linea sensor; E ction (belt TC/SC: tu	0#GVW 1-10000 aded very vehicle /U: warr urea/am ter (active ar/heate EGR: ex cdriven) urbo/sup	/R,3751-57 0#GVWR; N control syste hicle weigh o; TZEV: tra m-up cataly monia; NH ve); GPF: P d air-fuel ra chaust gas /(electric dr per charger	50#ALVW; MDV5: MDV em; CERT: ALVW: <i>a</i> ansitional Z st; NAC: N 3OC: amm M filter for atio sensor; recirculation riven); PAIF ; CAC: cha	LDT4: LD V 10001-14 certificatio djusted LV EV; TWC/( Ox adsorp onia oxida spark-ignit NOXS: N( n; HP/LP E R: pulsed A rge air coo	T 6001-850 4000#GVW yn; STD: sta /W; LEV: Ic OC: 3-way/ tion catalys tion catalys red engine; Ox sensor; GR: High/L JR; SFI/MF Jler; FFH: ft	0#GVWR,5 R; MDPV: r andard; FEL w emission oxidizing ca t; SCR-U o t; CTOX/PT HO2S/O2S PMS: PM s Low Pressu i: sequentia uel fired hea	o/51- medium- .: family vehicle; italyst; r OX: :: ensor; re EGR; al/multiport ater; 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

# 2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F350 INCOMPLETE 2WD FFV	MDV5	6.2	SA6	LFMXF0210GDJ	1	F
FORD	F350 INCOMPLETE 4WD FFV	MDV5	6.2	SA6	LFMXF0210GDJ	1	F