

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 GROUP INFORMATION													
MODE		TEST GROUP			VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2020	2020 LFMXD07.373K			MDV5			I	DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	LIFE (miles)		VEHICLE EMISSION CAT				ORY INTERIM / INT			ERMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP SI			SF	ГР	FTP		SFTP		
150000 150000			0	LEV3	ULEV270	(I) (L2	HOT14 492),	ULEV 35 UC SC03, CYCLE)	*		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD S	TATUS	E	ENGINE DISPLACEMENT (L)		
1		2TWC, 2WR	-HO25	5, 2HO2S,	SFI			FULL	ALL MODELS				
*	* *							ARTIAL	*		7.3		
*	* *							TIAL WITH *		-			
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EV	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	LFMXR02	50NHJ	L	EV 3 OPTI	ON2 WITH	FEL		MDV5 *			*		
	LFMXR03	60NHJ	L	EV 3 OPTI	ON2 WITH	TH FEL MDV5			v5	*			
				E	EMISSION C	REDIT		RMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY							ZEV	NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
	N N								N		N		
NMOG AND FLEET AVERAGE INFORMATION													
NMOG RAF					LDT (3751 L		500 G				IMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	* * 1.10 * 0.074					0.074			* *				
<u> </u>	Care the Attractive Section Reduce Evenerative Family Engine Displacement Emission Control 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 2014 day of November 2019.

Aller Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

FORD MOTOR COMPANY Executive Order: A-010-2228 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 mi)		:O /mi)		Ox mi)		HCH (mg/i		Pl (g/r		
				CERT	STD	CERT	STD	CERT	STD	CER	т	STD	CERT	STD	
FTP@5	ок	*		*	*	*	*	*	*	* *		*	*	*	
FTP@L		GASOLINE- TIER3 E10		0.176	0.270	3.3	4.2	*	* *			6	0.001	0.010	
50°F @4K GASO				0.130	0.540	1.4	4.2	*	*	2		20			
·	Section 12				FUEL TY	25		N	MOG+N	Ox (g/mi)		(	CO (g/mi)		
				CE	ERT ST			CERT		STD					
HWFET @ 50K					*		* *								
HWFE	T@UL			GASO	LINE-TIE	R3 E10		0.1	L03	0.270	D				
20°F @ 50K				-	*			alt and			*		*		
			S	FTP EX	HAUST E	ISSION S	TANDARD	S AND CI	ERTIFIC	ATION L	EVE	S			
1.1.1.1.1.1.1		UEL TYPE		US06					SC03			COMPOSITE			
	FUEL T				G+NOx /mi)	CO (g/mi)	PM (mg/mi)				lOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)		
@ 4K	*	*		RT *		*			*	*					
W HI					*	*			*	*	and the second				
		GASOLINE- TIER3 E10				* *			*	*	0.160		2.3	3	
@ UL						* * AAAAAA			* 1 665000484 1		* 0.550		6.0	7	
								al Mente							
ACCESSION (1999)		WH	OLE V	'EHICLE	EVAPOR	ATIVE EMI	SSION ST	ANDARD	S AND (	CERTIFIC	ATIC	ON LEVEL	3		
					V	HOLE VE	HICLE EV	PORATI	VE TEST	TING			-		
EVAPORATIVE FAMILY FUEI		UEL T	YPE	3DHS (g/test) @ UL				2DHS (g/test) @ UL				RL (g/mi) @ UL			

CERT

0.352

0.377

GASOLINE-

TIER3 E10 GASOLINE-

TIER3 E10

LFMXR0250NHJ

LFMXR0360NHJ

STD

0.600

0.600

FEL

0.600

0.600

CERT

0.231

0.356

STD

0.600

0.600

FEL

0.600

0.600

CERT

0.000

0.000

STD

0.05

0.05

	D MOTOR MPANY	Executive Order: A-010-2228 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 / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
EVAPORATIVE ORVR (g/gallon) @ UL FAMILY FUEL TYPE	3DHS RIG	TEST 2	2DHS R	IG TEST ) @ UL	BLEED CANISTER TEST (g/test) @ 4K							
FUEL TYPE CERT STD	CERT	STD (	CERT	STD	CERT	STD						
LFMXR0250NHJ GASOLINE- TIER3 E10 0.040 0.20 GASOLINE- TIER3 E10	*	*	*	*	0.013	0.030						
LFMXR0360NHJ GASOLINE- TIER3 E10 0.012 0.20 GASOLINE- TIER3 E10	*	*	*	*	0.013	0.030						
EFFECTIVE LEAK DIAMETER STANDA	RD AND CER	RTIFICATIC	ON LEV	EL (INCH	ES)							
EVAPORATIVE FAMILY LEAK FAMILY	CER	Т		STD								
LFMXR0360NHJ LFMXR0360NHJ-001 * 0.02												
LFMXR0250NHJ LFMXR0250NHJ-001	*				0.02							
*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT4: LDT 6001-8500#GVWR,5751- 8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: medium- duty 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; 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 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; AM: automated manual transmission; AMS: automated manual-selectable continuously variable transmission; AM: automat												
2020 MODEL YEAR: VEHI		ELS INI				1						

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F350 PICKUP 2WD	MDV5	7.3	SA10	LFMXR0250NHJ	1	F
FORD	F350 PICKUP 2WD	MDV5	7.3	SA10	LFMXR0360NHJ	1	F
FORD	F350 PICKUP 4WD	MDV5	7.3	SA10	LFMXR0250NHJ	1	F
FORD	F350 PICKUP 4WD	MDV5	7.3	SA10	LFMXR0360NHJ	1	F