

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						
MODI		TEST GROUP				VEHICLE CLASS(ES)				FUEL CATEGORY				FUEL TYPE		
202	2020 LFMXV01.5VZ3					PC				DEDICATED SINGLE FUEL VEHICLE				GASOLINE		
USEFUL LIFE (miles)						VEHICLE EMISSION CATEGOR				GORY	INTERIM / INTERMEDIAT			RMEDIATE IN-USE STD		
EXH/ORVR EVAP					FTP S			SF	FTP FTP			SFTP				
150000 150000				) .		LEV3	SULEV30	LEV30 LEV 3 COMPOS			E	*		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							L		OBD STATUS				ENGINE DISPLACEMENT (L)			
1	TWC(2), HO2S, WR-HO2S, CAC, TC, DFI								FULL		ALL MODELS					
*	* *							P	ARTIAL		*	* 1.5				
*	* *								RTIAL WITH * FINES							
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION																
EV	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							GOR	EVAP EMISSION S VEHICLE CLASS				SPECIAL FEATURES			
LFMXR0130NDE L					LEV	EV 3 OPTION2 WITH FEL				PC			3	*		
						E	EMISSION C	REDI	T INFO	ORMATIO	N					
						EDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			R	OPTIONAL EXH. STD FOR WORK TRUCKS			
	N N									N			N			
						NMOG	AND FLEE	TAVE	ERAG	EINFORM	MA	TION				
NMOC RAF	NMOGINMHCI				O/NMHC RATIO NMOG+NOX FLEET PC+LDT (0-3750 LV (g/mi)			50 LVI				0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*		1.10		* 0.065			5	0.074				*			

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 2412 day of July 2019.

musfie A.L.

Allen/Lyons Chief Emissions Certification and Compliance Division

## Executive Order: A-010-2191 New Passenger Cars, Light-Duty Trucks and FORD MOTOR CALIFORNIA AIR RESOURCES BOARD Medium-Duty Vehicles COMPANY 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 FUEL TYPE PM NMOG+NOx НСНО CO NOx (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) CERT STD CERT STD STD CERT STD CERT STD CERT \* \* \* \* \* ÷ \* \* FTP@50K GASOLINE-+ 4 0.01 \* \* 4 0.030 0.39 1.0 0.0212 FTP@UL TIER3 E10 \* \* \* \* \* \* 50°F @4K \* \* \* NMOG+NOx (g/mi) CO (g/mi) FUEL TYPE CERT STD CERT STD \* 4 HWFET @ 50K 0.014 0.030 GASOLINE-TIER3 E10 HWFET @ UL 10.0 0.72 COLD CO E10 REGULAR GASOLINE (TIER3) 20°F @ 50K SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS COMPOSITE US06 SC03 CO PM NMOG+NOx CO NMOG+NOx CO PM FUEL TYPE NMOG+NOx (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) (g/mi)(mg/mi) (g/mi) 4 \* \* CERT \* @ 4K \* r \* STD \* 0.6 \* 0.0186 CERT \* \* \* \* \* GASOLINE-STD \* \* 10 \* \* 0.083 4.2 \* @ UL TIER3 E10 BIN 0.040 WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS WHOLE VEHICLE EVAPORATIVE TESTING RL (g/mi) @ UL **EVAPORATIVE** 2DHS (g/test) @ UL FUEL TYPE 3DHS (g/test) @ UL FAMILY CERT STD CERT STD FEL CERT STD FEL GASOLINE-0.05 LFMXR0130NDE 0.2071 0.300 0.300 0.1441 0.300 0.300 0.00 TIER3 E10 ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS FUEL ONLY EVAP & CANISTER BLEED **3DHS RIG TEST** 2DHS RIG TEST BLEED CANISTER **EVAPORATIVE** ORVR (g/gallon) @ UL TEST (g/test) @ 4K (g/test) @ UL (g/test) @ UL FAMILY FUEL TYPE CERT STD FUEL TYPE CERT STD CERT STD CERT STD GASOLINE-GASOLINE-\* \* \* 0.0070 LFMXR0130NDE 0.011 0.20 \* 0.020 TIER3 E10 TIER3 E10

CALIFORNI AIR RESOURCES BOA	A	FORD MOTOR COMPANY	Executive Order: A-010-2191 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4									
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)												
EVAPORATIVE FAMILY LEAK FA	MILY	CERT	Г	STD								
LFMXR0130NDE KFMXR0130	NDE-001	*		0.02								
LFMXR0130NDE KFMXR0130NDE-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; 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: 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; ULEY: 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/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/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: SRC coated DPF); CNG/LNG: comp												

## 2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	FUSION FWD	PC	1.5	SA6	LFMXR0130NDE	1	F