

FORD MOTOR COMPANY

Executive Order: A-010-2207

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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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	IFOR	MATION					
MODE YEAR	- 1 11	EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2020	LF	MXT03.54JK			LDT4			DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISSION						ION C	ATE	GORY	INTERIM / IN	TE	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP F					FTP SFTP			TP	FTP		SFTP		
15	150000 150000 LEV3 ULEV70 LE						V 3 COMPOSITE		PM		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD STATUS			ENGINE DISPLACEMENT (L)		
1 2TWC, DFI, SFI, 2WR-HO2S, 2HO2S, 2TC, CAC								FULL	L ALL MODELS				
*			*				Р	ARTIAL	*	3.5			
*	* * P							TIAL WITH FINES	*				
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY VEHICLE CLASS SPECIAL FEATUR							SPECIAL FEATURES						
I	FMXR02	00GDG	L	EV 3 OPTI	ON2 WITH	FEL LDT4				HCT			
LFMXR0260NDG LEV 3 OPTION2					ON2 WITH	FEL		LD	T4		HCT		
				ı	EMISSION CI	REDIT	INFO	RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR N ZERO-EVAR					NIMICA COEDIT EOD			REDIT FOR DO	OPTIONAL EXH. STD FOR WORK TRUCKS			
	n n							n n			N		
NMOG AND FLEET AVERAGE INFORMATION													
NMOG RAF	RAE RAE NMOG/NMHC RATIO PC+LDI (0					3750 LVW) LDT (3751 LVW-850							
*	*	1.10		*	0	.065		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.)



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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 24114 day of September 2019.

Allen Lyons, Chief

Emissions Certification and Compliance Division



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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+NOx CO **HCHO** NOx PM (g/mi) (g/mi) (g/mi) (mg/mi) (g/mi) **CERT CERT CERT** STD STD STD CERT STD CERT STD FTP@50K GASOLINE-FTP@UL 0.0607 0.070 0.89 1.7 0.7 4 0.0013 0.003 TIER3 E10 50°F @4K NMOG+NOx (g/mi) CO (g/mi) **FUEL TYPE** CERT CERT STD STD HWFET @ 50K HWFET@UL GASOLINE-TIER3 E10 0.0252 0.070 20°F @ 50K COLD CO E10 REGULAR GASOLINE (TIER3) 0.83 12.5 SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS **US06 SC03** COMPOSITE **FUEL TYPE** PM NMOG+NOx CO NMOG+NOx NMOG+NO_x CO CO PM (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) (g/mi) (mg/mi) CERT @ 4K STD * * * * * CERT 3 * 0.0466 0.72 GASOLINE-@ UL STD * 6 * 0.083 4.2 TIER3 E10 0.070 BIN

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE \	N 19 1 2						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2DHS (g/test) @ UL			RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD	
LFMXR0200GDG	GASOLINE- TIER3 E10	0.2989	0.500	0.500	*	0.500	0.500	0.000	0.05	
LFMXR0260NDG	GASOLINE- TIER3 E10	0.2537	0.500	0.500	0.2084	0.500	0.500	0.000	0.05	



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			-	FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/g	gallon) @	UL	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		
LFMXR0260NDG	GASOLINE- TIER3 E10	0.01	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.0060	0.020		
LFMXR0200GDG	GASOLINE- TIER3 E10	0.028	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.0100	0.020		

EFFECTIVE LEAR DIAMETER STANDARD AND CERTIFICATION LEVEL (INCITES)								
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD					
LFMXR0200GDG	LFMXR0200GDG-001	*	0.02					
LFMXR0260NDG	LFMXR0260NDG-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: mediumduty 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; 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: 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	F150 2WD	LDT4	3.5	SA10	LFMXR0200GDG	1	F
FORD	F150 2WD	LDT4	3.5	SA10	LFMXR0260NDG	_ 1	F
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT4	3.5	SA10	LFMXR0200GDG	1	F.
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT4	3.5	SA10	LFMXR0260NDG	1	F
FORD	F150 3.5L 2WD GVWR>7599 LBS	LDT4	3.5	SA10	LFMXR0200GDG	1	F
FORD	F150 3.5L 2WD GVWR>7599 LBS	LDT4	3.5	SA10	LFMXR0260NDG	1	F
FORD	F150 3.5L 4WD GVWR>7599	LDT4	3.5	SA10	LFMXR0200GDG	1	F
FORD	F150 3.5L 4WD GVWR>7599	LDT4	3.5	SA10	LFMXR0260NDG	1	F
FORD	F150 PICKUP 4WD	LDT4	3.5	SA10	LFMXR0200GDG	1	F
FORD	F150 PICKUP 4WD	LDT4	3.5	SA10	LFMXR0260NDG	1	F
FORD	F150 POLICE RESPONDER	LDT4	3.5	SA10	LFMXR0200GDG	1	F