

 <b>CALIFORNIA</b> AIR RESOURCES BOARD	FORD MOTOR COMPANY	Executive Order: A-010-2212 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 5
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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 GROUP INFORMATION											
MODEL YEAR		TEST GROUP		VEHICLE CLASS(ES)			FUEL CATEGORY		FUEL TYPE		
2020		LFMXT03.54HF		LDT4			DEDICATED SINGLE FUEL VEHICLE		GASOLINE		
USEFUL LIFE (miles)				VEHICLE EMISSION CATEGORY				INTERIM / INTERMEDIATE IN-USE STD			
EXH/ORVR		EVAP		FTP		SFTP		FTP		SFTP	
150000		150000		LEV3 ULEV70		LEV 3 COMPOSITE		PM		PM	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					OBD STATUS			ENGINE DISPLACEMENT (L)			
1	DFI, SFI, 2TWC, 2WR-HO2S, 2HO2S, 2TC, CAC				FULL		*		3.5		
*	*				PARTIAL		ALL MODELS				
*	*				PARTIAL WITH FINES		*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION											
EVAP / ORVR FAMILY		EVAPORATIVE STD CATEGORY			EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
LFMXR0260NDV		LEV 3 OPTION2 WITH FEL			LDT4			*			
LFMXR0200GDG		LEV 3 OPTION2 WITH FEL			LDT4			*			
EMISSION CREDIT INFORMATION											
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY		NMOG CREDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS			
N		N			N			N			
NMOG AND FLEET AVERAGE INFORMATION											
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)		NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	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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AIR RESOURCES BOARD

FORD MOTOR  
COMPANY

Executive Order: A-010-2212  
New Passenger Cars, Light-Duty Trucks and  
Medium-Duty Vehicles  
Page 2 of 5

**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 1/7<sup>th</sup> day of October 2019.

Allen Lyons, Chief  
Emissions Certification and Compliance Division

## ATTACHMENT

### EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

#### EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

	FUEL TYPE	CH <sub>4</sub> : methane; NMOG: non-CH <sub>4</sub> organic gas; HC: hydrocarbon; NMHC: non-CH <sub>4</sub> HC; CO: carbon monoxide; NO <sub>x</sub> : 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									
		NMOG+NO <sub>x</sub> (g/mi)		CO (g/mi)		NO <sub>x</sub> (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE-TIER3 E10	0.0600	0.070	1.26	1.7	*	*	1.0	4	*	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+NO <sub>x</sub> (g/mi)		CO (g/mi)	
		CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE-TIER3 E10	0.0259	0.070		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.98	12.5

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		US06			SC03		COMPOSITE		
			NMOG+NO <sub>x</sub> (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NO <sub>x</sub> (g/mi)	CO (g/mi)	NMOG+NO <sub>x</sub> (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
@ UL	GASOLINE-TIER3 E10	CERT	*	*	*	*	*	0.0539	1.1	*
		STD	*	*	6	*	*	0.083	4.2	*
		BIN						0.100		

#### WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE	WHOLE VEHICLE EVAPORATIVE TESTING						RL (g/mi) @ UL	
		3DHS (g/test) @ UL			2DHS (g/test) @ 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
LFMXR0260NDV	GASOLINE-TIER3 E10	0.2212	0.500	0.500	0.1981	0.500	0.500	0.001	0.05

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS										
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED						
				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
LFMXR0200GDG	GASOLINE-TIER3 E10	0.022	0.20	GASOLINE-TIER3 E10	*	*	*	*	0.0100	0.020
LFMXR0260NDV	GASOLINE-TIER3 E10	0.011	0.20	GASOLINE-TIER3 E10	*	*	*	*	0.0107	0.020

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)				
EVAPORATIVE FAMILY	LEAK FAMILY	CERT		STD
LFMXR0200GDG	LFMXR0200GDG-001	*		0.02
LFMXR0260NDV	LFMXR0260NDV-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; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZE: 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	EXPEDITION 2WD	LDT4	3.5	SA10	LFMXR0200GDG	1	P
FORD	EXPEDITION 2WD	LDT4	3.5	SA10	LFMXR0260NDV	1	P
FORD	EXPEDITION 4WD	LDT4	3.5	SA10	LFMXR0200GDG	1	P
FORD	EXPEDITION 4WD	LDT4	3.5	SA10	LFMXR0260NDV	1	P
FORD	EXPEDITION MAX 2WD	LDT4	3.5	SA10	LFMXR0200GDG	1	P
FORD	EXPEDITION MAX 2WD	LDT4	3.5	SA10	LFMXR0260NDV	1	P
FORD	EXPEDITION MAX 4WD	LDT4	3.5	SA10	LFMXR0200GDG	1	P
FORD	EXPEDITION MAX 4WD	LDT4	3.5	SA10	LFMXR0260NDV	1	P
LINCOLN	NAVIGATOR 2WD	LDT4	3.5	SA10	LFMXR0200GDG	1	P
LINCOLN	NAVIGATOR 2WD	LDT4	3.5	SA10	LFMXR0260NDV	1	P
LINCOLN	NAVIGATOR 4WD	LDT4	3.5	SA10	LFMXR0200GDG	1	P
LINCOLN	NAVIGATOR 4WD	LDT4	3.5	SA10	LFMXR0260NDV	1	P
LINCOLN	NAVIGATOR L 2WD	LDT4	3.5	SA10	LFMXR0200GDG	1	P



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AIR RESOURCES BOARD

FORD MOTOR  
COMPANY

Executive Order: A-010-2212  
New Passenger Cars, Light-Duty Trucks and  
Medium-Duty Vehicles  
Page 5 of 5

**2020 MODEL YEAR: VEHICLE MODELS INFORMATION**

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
LINCOLN	NAVIGATOR L 2WD	LDT4	3.5	SA10	LFMXR0260NDV	1	P

