

# FORD MOTOR COMPANY

Executive Order: A-010-2443

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							FUEL CATEGORY			FUEL TYPE			
2023	PF	MXT03.54HF		LDT4 DEDICATED SINGLE FUEL VEHICLE GASON						GASOLINE			
	USEFUL	. LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	INTERIM / I	NTE	RMEDIATE IN-USE STD		
EXH	I/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	150000		LEV3	ULEV50	LEV	3 CC	MPOSITE	*		PM		
I OBUSTATUS						ENGINE DISPLACEMENT (L)							
1 D	FI,SFI	,2TWC,2WR-HO	2S,2I	HO2S,2TC	,CAC,EGR,E	GRC		FULL	*				
*	*						Р	ARTIAL	ALL MODELS	3.5			
*	*							TIAL WITH FINES	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	P / ORV	R FAMILY	EVA	PORATIVI	STD CATE	GORY	,	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
I	FMXR02	00GDG	LE	V 3 OPT	3 OPTION2 WITH FEL			LI	т4		*		
I	PFMXR02	60NDV	LE	LEV 3 OPTION2 WITH FEL			LDT4				*		
					EMISSION C	REDIT	INFO	RMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N	ON-P	ZEV	NMOG C	REDIT FOR DO	R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAGI	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		IO/NMHC RATIO	NMOG+NO PC+LDT ((					0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*	0	.044			0.047		*		

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 on this /st day of November 2022.

Robin U. Lang, Chief

Johns Shi for

**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 (g/mi)				NOx (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	0.032	0.050	0.7	1.7	*	*	0	4	0.001	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.010	0.050			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.4	12.5	

### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	9.4K *	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	1	*	*	0.026	0.8	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.063	4.2	*
		BIN						0.060		

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

			WHOLE \						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) @	D UL	2DI	HS (g/test) (	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
PFMXR0200GDG	GASOLINE- TIER3 E10	0.2989	0.500	0.500	*	0.500	0.500	0.000	0.05
PFMXR0260NDV	GASOLINE- TIER3 E10	0.2212	0.500	0.500	0.1981	0.500	0.500	0.001	0.05



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)													
ORVR / FU	ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (	g/gallon) @	/gallon) @ UL 3DHS RIG TEST 2DHS RIG TEST BLEED CAN  FUEL TYPE (g/test) @ UL (g/test) @ UL TEST (g/test)		3DHS RIG TEST   2DHS RIG TEST   BLEE								
	<b>FUEL TYP</b>	E CERT	STD			CERT	STD	CERT	STD	CERT	STD		
PFMXR0200GDG	GASOLINE TIER3 E1	10 022	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.0100	0.020		
PFMXR0260NDV	GASOLINE TIER3 E1	10 011	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.0107	0.020		
I	EFFECTIVI	LEAK D	IAMET	ER STA	NDARI	D AND CE	RTIFICA	TION LE	EVEL (INCH	IES)			
EVAPORATIVE	FAMILY	LEA	K FAMII	_Y		CE	RT			STD			
PFMXR0200	GDG	PFMXR0200GDG-001 *			3-001 *					0.02			
PFMXR0260	NDV	PFMXR0	260NDV	-001		4	+			0.02			

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: DT<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

### 2023 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	EXPEDITION 4X2	LDT4	3.5	SA10	PFMXR0200GDG	1	P
FORD	EXPEDITION 4X2	LDT4	3.5	SA10	PFMXR0260NDV	1	P
FORD	EXPEDITION 4X4	LDT4	3.5	SA10	PFMXR0200GDG	1	P
FORD	EXPEDITION 4X4	LDT4	3.5	SA10	PFMXR0260NDV	1	P
FORD	EXPEDITION STEALTH	LDT4	3.5	SA10	PFMXR0200GDG	1	P
FORD	EXPEDITION STEALTH	LDT4	3.5	SA10	PFMXR0260NDV	1	P
FORD	EXPEDITION TIMBERLINE 4X4	LDT4	3.5	SA10	PFMXR0200GDG	1	P
LINCOLN	NAVIGATOR 4X2	LDT4	3.5	SA10	PFMXR0200GDG	1	P
LINCOLN	NAVIGATOR 4X2	LDT4	3.5	SA10	PFMXR0260NDV	1	P
LINCOLN	NAVIGATOR 4X4	LDT4	3.5	SA10	PFMXR0200GDG	1	P
LINCOLN	NAVIGATOR 4X4	LDT4	3.5	SA10	PFMXR0260NDV	1	P