

FORD MOTOR COMPANY

Executive Order: A-010-2323

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 GROUP INFORMATION													
MODE YEAR	- I T	EST GROUP		VEHICLE CLASS(ES)			FUEL C	ATEGORY		FUEL TYPE			
2021	MF	MXT03.57AT			LDT4 DEDIC				SINGLE FUEL HICLE		GASOLINE		
	USEFUL	. LIFE (miles)		VEHICLE EMISSION CATEGORY				GORY	INTERIM / IN	TERM	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP SFTP			TP	FTP		SFTP			
150000 150000				LEV3	ULEV50 LEV 3 COMPO			MPOSITE	*		PM		
SPE	CIAL FE	T EMISSIO	ON CONTRO	L		OBD S	OBD STATUS		ENGINE DISPLACEMENT (L)				
1	2TWC, DFI, SFI, 2WR-HO2S, 2HO2S, 2TC, CAC, EGR, EGRC							FULL	ALL MODELS		3.5		
*	* *							ARTIAL	*				
*	* *							RTIAL WITH *		1			
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVAP / ORVR FAMILY EVAPORATIVE STD C						GORY	,		SSION STD E CLASS	SP	ECIAL FEATURES		
N	IFMXR02	60NDG	EV 3 OPTION2 WITH FEL			LD	Т4		HCT				
					EMISSION CI	REDIT	INFO	RMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY					G 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	NWOG/NMHC DCTI DT /0-375						V) LDT						
*	*	1.10		*	0	. 058			0.065		*		

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 23rd day of April 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division



GASOLINE-TIER3 E10

0.02

0.20

MFMXR0260NDG

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0.005

0.020

ATTACHMENT

	EXH	\US	T AND	EVAPO	PRATI	VE EMI	SSION	STAN	IDAF	RDS ANI	CERTI	FIC	ATION	LEV	ELS			
		EXH									(FTP, HW							
	FUEL TYPE		mo ad OF 10	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														
						NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)		HCH (mg/r		_		PM (g/mi)	
				ERT	STD	CER	T STI	D	CERT	STD	CERT	Г	STD	CERT		STD		
FTP@5	FP@50K *			*	*	*	*		*	*	*		*	*		*		
FTP@L	GASOLINE- TIER3 E10		1 (1	.033	0.050	1.0	1.	7	*	*	2		4	0.0	01	0.003		
50°F @4	4K	*		*	*	*	*		*	*	*	Ц,	*					
				F	UEL TY	/PE			NMOG+NOx (g/r			 		CO (g/mi)				
									C	ERT	STD	\dashv	CERT		STD			
HWFE	Г @ 50K				*					* *		_						
HWFE	HWFET @ UL			GASOLINE-TIER3 E10					0	.014	0.050							
20°F	@ 50K	C	OLD CO	E10 REGULAR GASOLINE (TIER3)									0.9		12.5			
			SF	TP EXH	AUST E		STAND	ARDS	AND		ATION LE	VEL						
			-			US06				SC03			СОМРО					
	FUEL TYPE			NMOG+NOx (g/mi)		CO (g/mi)	CO PM (g/mi) (mg/r		NMOG+NOx (g/mi)		CO (g/mi)		OG+NO> (g/mi)		CO /mi)	PM (mg/mi)		
@ 4K	*		CERT	*		*	*		*		*							
		ST		*		*			* *									
		CE		*		*	3	3		*	* 0.028		0.028	1.3		*		
@ UL	UL GASOLIN		STD			*	6		*		*		0.077	4	. 2	*		
			BIN										0.060					
		WH	IOLE VE	HICLE E							ERTIFICA	ATIO	N LEVEI	_S				
1	EVAPORATIVE FAMILY		FUEL TY	WHOLE VEHICLE EVAP TYPE 3DHS (g/test) @ UL					2DHS (g/test) @ UL				RL (g/mi) @ UL					
					CERT STD FEL			CF	CERT STD		FEL		CERT		STD			
MFMXR	MFMXR0260NDG		GASOLIN	INE- 0 254 0		0.500	0.500			0.500	0.50							
ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS									LS									
FUEL ONLY EVAP & CANISTER BLEED																		
	EVAPORATIVE FAMILY		ORVR (ı/gallon	@ UL		FUEL TYPE		3DHS RIG 1 (g/test) @						BLEED CANISTER EST (g/test) @ 4K			
i Adilei									4, 1001.		(4/163	L) LW	UL I	IESI	(y/te	31) (W TIV		
		FL	JEL TYP	CER	т ѕті	_		_	RT	STD	CERT	 	STD	CER		STD		

GASOLINE-

TIER3 E10



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
MFMXR0260NDG	MFMXR0260NDG-001	*	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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	MODEL VEH CLASS ENGINE (L)		TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD					
FORD	F150 RAPTOR 4WD	LDT4	3.5	SA10	MFMXR0260NDG	1	F					