

# FORD MOTOR COMPANY

Executive Order: A-010-2298

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		EST GROUP		VEHIC	ICLE CLASS(ES)			FUEL C	ATEGORY		FUEL TYPE			
2021	L MF	MXV05.2VEZ			PC			DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
USEFUL LIFE (miles) VEHICLE EMISS								GORY	INTERIM / IN	TERM	TERMEDIATE IN-USE STD			
EXI	I/ORVR	EVAP			FTP SFT			TP	FTP		SFTP			
1!	50000	150000		LEV3	ULEV125	LEV125 LEV 3 COMPO			*		PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD S	TATUS	EN	ENGINE DISPLACEMENT (L)			
1	2TW	C, 2WR-HO2S,	2н	O2S, SFI,	, CAC, SC			FULL	ALL MODELS					
*	* *							ARTIAL	*		5.2			
*	* *								*					
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR								SSION STD E CLASS	SF	SPECIAL FEATURES			
MFMXR0125NDA LEV 2							PC			HCT				
				I	EMISSION CI	REDIT	INFO	ORMATION						
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR NOI ZERO-EVAP						ON-P	ZEV	NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS			
И								n n						
NMOG AND FLEET AVERAGE INFORMATION														
NMOG RAF					0-375		LVW) LDT (3751 LVW-8500 MDV (10,			MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)				
*	*	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 <u>3rd</u> day of December 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 



GASOLINE-

PREM

0.04

0.20

MFMXR0125NDA TIER3 E10

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### **ATTACHMENT**

	ATTACHMENT																	
	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS																	
	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)																	
	FUEL TYPE			mon adju: ORV	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													
				NM			ı	CO (g/mi)		NOx (g/mi)		1	HCH (mg/r			PM (g/mi)		
					RT	STD	CERT	RT STD		CERT				STD	CE	_	STD	
FTP@5	0K	*			*	*	*	*		*	*	*		*		r	*	
FTP@L	GASOLINE- TIER3 E10 PREM		0.	082 (	0.125	1.4	2.:	1	*	*	* 1		4		000	0.003		
50°F @	4K	*		,	*	*	*	*		*	*	*		*				
	FUEL TYPE										MOG+N	,				(g/mi)		
		-								C	ERT	STD	CEF		CERT		STD	
HWFET @ 50K						*					*	*						
HWFE	HWFET @ UL GASOLI						INE-TIER3 E10 PREM				.037	0.125						
20°F @ 50K COLD CO E10 PREMIUM GASOLINE (TIER3)									;	10.0								
	SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS																	
					11100.1		JS06	T 5	SC03							MPOSITE CO PM		
	FUEL TYPE		ľ	NMOG+NOx (g/mi)		(g/mi) (mg/i				g/mi)	CO (g/mi)		NMOG+NOx (g/mi)		J/mi)	(mg/mi)		
@ 4K	4K * CE		RT	*		*		,		*	*		<u></u>	,,	<u> </u>			
			S	TD	*		*				*	*						
	CEF			RT	*		*	1	L	*		*	0.110			L.4	*	
@ UL	UL TIER3 E10 ST		TD	*		*	6			*	*	0.077		4	1.2	*		
			В	IN									(	0.150				
		W	/HOL	E VEH	ICLE EV	APORA	TIVE EN	MISSION	STAI	NDAR	DS AND	CERTIFIC	ATIO	N LEVE	LS			
EVA D		,_				W	HOLE VI	HICLE	EVAP	ORAT	IVE TEST	TING			l /a/a	~i\ @		
	ORATIV MILY	VE   FUEL		UEL TYPE		BDHS (g	/test) @ UL			2DHS (g/test)		@ UL		RL (g/n		ni) @ UL		
				С		₹T 5	STD	FEL	CE	RT	STD	FEL		CERT			STD	
MFMXR0125NDA TIE		TIE	OLINE- R3 E10 REM	E10 0.27 0			* *		+	0.65	*		0.00		0.05			
	RVR / I	FUEL	ONL	Y/CA	NISTER	BLEED	EVAPO	RATIVE	EMIS	SION	STANDA	RDS AND	CEI	RTIFICA	TION	LEVE	LS	
												P & CAN						
	EVAPORATIVE FAMILY					on) @ UL FUEL TYI			(9	g/test)	G TEST @ UL	(g/te	2DHS RIG T (g/test) @		IL TEST (g		CANISTER (g/test) @ 4K	
			FUEL TYPE C		CERT	STD		CE	RT	STD	CERT	_	STD	CEF	₹Τ	STD		

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

\*: 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	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	SHELBY GT500 MUSTANG	PC	5.2	AM7	MFMXR0125NDA	1	F