

## FORD MOTOR COMPANY

Executive Order: A-010-2199

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 GR	OUP IN	IFORI	MATION					
MODE YEAR	TEST COOLID			VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
2020	LF	MXV02.3VJY	F - 4 24	PC I				DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
1	USEFUL	LIFE (miles)		VEH	ICLE EMIS	SION C	ATEC	ORY	INTERIM / IN	TERMEDIATE IN-USE STD			
EXH	/ORVR	EVAP		FTP			SF	SFTP FTP		SFTP			
150000 150000				LEV3	ULEV70 LEV 3 COM		MPOSITE	SITE *					
SPE	CIAL FE	ATURES & EX	HAUST EN	MISSIC	ON CONTRO	DL Programme		OBD S	TATUS	M.S. Supplied Print	ENGINE DISPLACEMENT (L)		
1 TWC, WR-HO2S, HO2S, TC, CAC, DFI							2.50	FULL	ALL MODELS		An' di I par Andrews		
* *							PARTIAL		*	THE STATE OF THE S	2.3		
*							ARTIAL WITH *						
		Ε\	/APORATI	VE &	REFUELING	G (EVA	P/OR	VR) FAMIL	INFORMATION	1			
EVA	P / ORV	RFAMILY	EVAPOR	ATIVE	STD CATE	GORY	5.734		SSION STD E CLASS		SPECIAL FEATURES		
I	FMXR01	30NDE	LEV 3	OPTI	ON2 WITH	TH FEL P			PC		HCT		
				E	MISSION C	REDIT	INFC	RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR NON ZERO-EVAP							NMOG CREDIT F			OPTIONAL EXH. STD FOR WORK TRUCKS		
	N N						И				N		
			ı	MOG	AND FLEE	TAVE	RAGE	INFORMA	TION				
NMOG RAF	NIMOG/NIMILIC I				NMOG+NOX FLEET S PC+LDT (0-3750 LV (g/mi)								
*	* .	1.10	*	4		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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Section 1895 and St. as Applicables

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 th	what the transfer what ever statute out it is interested to	enal is the related to the district of the relation of the rel	图14年1日本大学的	Aufter furtheath in on haden and hus	Section of the section	1. 241 AND E4. 1
The Bureau of Automotive	Repair will be notified by	copy of this Executive Or	der.	NATO SOMEYA 1373	37 (440)	243
Executed at El Monte, Cal	lifornia on this $12^{12}$	day of August 2019.		2314 - 31 (3)		
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ar egrage Lavades	M Emissions C	Certification and Complian				a Fi
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**FAMILY** 

LFMXR0130NDE

**FUEL TYPE** 

GASOLINE-

TIER3 E10

**CERT** 

0.01

STD

0.20

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### **ATTACHMENT**

### **EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS**

-	ЕХПА					-			_	_				50°F, 20°		)						
	FUE	FUEL TYPE		CH4: me monoxio adjustm ORVR [	ethane; Nox: de; Nox: ent facto g HC/gal	NMO oxide r; 2D lon d	G: non- es of ni HS/3D ispense	-CH4 orga trogen; H HS [g HC ed]: on-bo	anic ga CHO: /test]: oard re	as; HC formal 2/3 da efueling	: hydroca Idehyde; f iys diurna g vapor re	rbon; NMI PM: partic I+hot-soal covery; g	HC: no ulate k; RL : gram	on-CH4 Homatter; RA [g HC/mi]: n; mg: milli oplemental	C; CO: ca AF: reacti running l gram; mi	vity loss;						
					OG+NOx g/mi)	:		CO (g/mi)			NOx g/mi)		HCH (mg/r			M mi)						
						CERT	ST	D	CERT	T STD	0	CERT	STD	CEF	T STD		CERT	STD				
FTP@5	0K	*	1 24	* *	*		*	*		*	*	*		*	*	*						
FTP@L	FTP@UL GASOLINE- TIER3 E10			0.040	0.0	70	1.4	1.	7	*	*	*		4	4 *							
50°F @4	4K	*		* . *	*		*	*		*	*	*	104	*								
					FUEL	TYPI	E				NMOG+N				CO (g/mi							
									CERT		STD		CERT S		STD							
HWFET @ 50K				· · · · · *				* *		*	*	1,000										
HWFE	T@UL		-	GASOLINE-TIER3 E10					0.014 0.070		0											
20°F (	@ 50K	C	OLD C	O E10	REGULA	R GA	SOLIN	E (TIER	(3)					2.2	ta A	10.0						
	191 A 1-18			SFTP E	XHAUST	EMI	SSION	STANDA	ARDS	AND	CERTIFIC	CATION L	EVEL	.S								
	1 1.				1	L	JS06			1 4 4	SC03	3	3 2.	CON	/IPOSITE	191125						
	FUEL T	YPE		92	OG+NOx g/mi)		CO (g/mi)	Pi (mg		NMOG+NOx (g/mi)		CO (g/mi)		OG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)						
@ 4K	*	* CEI		Т	*		*		*		*	*										
					*		*				*	*	*									
		CEI		Т	*		*	,	+		*	*	* (		1.2	*						
@ UL								ASOLINE- IER3 E10			*		*	,	ł		*	*	(	0.083	4.2	*
														0.090	West to							
		WH	OLE V	/EHICL	E EVAP	ORA	TIVE E	MISSION	STA	NDAR	DS AND	CERTIFIC	ATIO	N LEVEL	S							
						WH	IOLE V	EHICLE	EVAF	ORAT	TIVE TES	TING										
EVAPORATIVE FAMILY		Ē   F	UEL 1	YPE	3DH	3DHS (g/test) @ UL				2DHS (g/test)		) @ UL	@ UL		RL (g/mi) @ UL							
					CERT	ERT STD		FEL CE		RT STD		FE	FEL		Г	STD						
LFMXR	0130ND	F. 1	GASOL CIER3	. 0.00 0.00 0.00	0.207	0.	300	0.300 0.1		.44 0.300 0.300		00	0.00		0.05							
C	RVR / F	UEL	ONLY	/ CANIS	STER BL	EED	EVAP	ORATIVE	EMI	SSION	STANDA	RDS AN	D CE	RTIFICAT	ION LEV	ELS						
												P & CAN	IISTE	R BLEED								
	ORATIVI	<b></b>	ORVE	(g/gall	on) @ U	L	3			BDHS RIG TEST   2DHS RIG TEST   BLEED CANIST					ANISTER							

(g/test) @ UL

STD

**CERT** 

**FUEL TYPE** 

GASOLINE-

TIER3 E10

(g/test) @ UL

STD

**CERT** 

TEST (g/test) @ 4K

STD

0.020

**CERT** 

0.007



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
LFMXR0130NDE	LFMXR0130NDE-001	The second secon	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: SRC 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	OBD
FORD	MUSTANG	PC S	2.3	M6,SA10	LFMXR0130NDE	1 11	F

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