CALIFOR	NIA
MC IIA AIR RESOURCES	BOARD

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-14-012;

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	OUP IN	IFOR	MATION	12 Contraction of the second				
MODE YEAR	- I T	EST GROUP		VEHICLE CLASS(ES)				FUEL C	ATEGORY		FUEL TYPE		
2019	KF	MXT02.73JK		LDT3, LDT4				DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISSION							ATE	GORY	INTERIM / IN	ITE	RMEDIATE IN-USE STD		
EXH	EXH/ORVR EVAP FTP						SFTP FTP				SFTP		
15	0000	15000)	LEV3	ULEV70	LEV	3 CC	MPOSITE	*		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L	-	OBD STATUS (L)						
1 2 TWC, DFI, SFI, 2 WR-HO2S, 2 HO2S, 2 TC, CAC, EGR, EGRC					TC,		FULL	*	1. 1. 1. 1. 1.				
*			*			ACC: 1	P	ARTIAL	ALL MODELS		2.7		
*	*						and some of the	TIAL WITH FINES	*				
		E	VAPO	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N			
EVA	P / ORV	RFAMILY	EV	APORATIVE	E STD CATE	GORY			SSION STD E CLASS		SPECIAL FEATURES		
K	FMXR02	00GDG	I	EV 3 OPTI	ION2 WITH	FEL		LI	ЭТЗ		HCT		
F	FMXR02	60NDP	I	EV 3 OPTI	CON2 WITH	FEL		LI)ТЗ		HCT		
K	FMXR02	60NDX	I	EV 3 OPTI	CON2 WITH	FEL	÷	LDT3			HCT		
				I	EMISSION CI	REDIT	INFC	RMATION	5 				
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY						ON-P2	ZEV	NMOG C	REDIT FOR DO	R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N		147 17	N			N			N		
				NMOG	AND FLEET	AVE	RAGE	INFORMA	TION				
NMOG RAF					0-3750					NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		*	0	.072			0.083		*		

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.)



FORD MOTOR COMPANY

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.

This Executive Order hereby supersedes Executive Order A-010-2171 dated October 12, 2018.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this _____ day of May 2019.

Allen Lyóns, Chief Emissions Compliance, Automotive Regulations and Science Division



FUEL TYPE

FORD MOTOR COMPANY Executive Order: A-010-2171-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 5

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

													-4				
					OG+NOx (g/mi)		CO (g/mi)			Ox /mi)	-	HCH (mg/r		Pl (g/r			
				CER	г сті	D CER	T ST	D	CERT	STD	CER	T	STD	CERT	STD		
FTP@5	٥ĸ	*		*	*	*	*		. *	*	*		*	*	*		
FTP@L		ASOLI IER3		0.059	0.0	70 1.2	9 1.	7	*	*	*		4	*	0.01		
50°F @4		ASOLI IER3		0.062	8 0.14	40 0.4	8 2.	1	*	*	0.7	,	16		an a		
		101			FUEL "				N	MOG+N	Ox (g/mi)		(CO (g/mi)			
				1	FUEL			e.	CE	RT	STD		CERT		STD		
HWFE	Г @ 50	ĸ			*					*	*						
HWFE	T @ U	L		GA	SOLINE-7	TIER3 E1	0		0.0	0.0223 0.0) (
20°F@50K COLD CO E10 REGULAR GASOLINE (TIER3)									1.87		12.5						
			- Constants	SFTP E	XHAUST	EMISSIO	N STAND	ARDS	AND C			EVEL					
新研究				US06						SC03		ļ	COMPOSITE				
「「「「「」」	FUEL	_ TYPE		() A THE	OG+NOx (g/mi)	CO (g/mi)		PM g/mi)		G+NOx mi)	CO (g/mi)	1	OG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)		
@ 4K		*	CE	RT	*	*	時間に			*	*						
			ST	D	*	*		R H		*	*						
		1 5 1		т	T *		* -			*	*	0.0956		1.25	*		
@ UL	1 10000 008 00			GASOLINE- TIER3 E10 STD		D	*	*		*		* *			0.090	4.2	*
											制。感	41.0110	0.100				
		N	HOLE	VEHICL	EEVAPO	DRATIVE E	EMISSION	N STA	NDARD	S AND C	CERTIFIC	ATIO	N LEVELS	8			
						WHOLE	VEHICLE	EVAP	ORATI	VE TEST	ING		1				
	ORATI	IVE	FUEL	TYPE	3DH	S (g/test) (@ UL		2DHS (g/test) @ UL			RL (g/n		(g/mi) @	UL		
					CERT	STD	FEL	CE	RT	STD	FE	L	CERT	-	STD		
KFMXR0200GDG		GDG		LINE- 3 E10	0.2989	0.500	0.500	,	+	0.500	0.5	0.500)	0.05		
KFMXF	202601	NDP		LINE- 3 E10	0.2537	0.500	0.500	0.2	084	0.500	0.5	0.500)	0.05		
KFMXF	202601	NDX	GASO	LINE- 3 E10	0.2537	0.500	0.500	0.2	084	0.500	0.5	00	0.000)	0.05		

A	FORD MOTOR COMPANY			N	Executive Order: A-010-2171-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 5								
ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
					FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/	FUEL TYPE			IG TEST) @ UL		RIG TEST st) @ UL	BLEED C TEST (g/t					
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD		
KFMXR0260NDP	GASOLINE- TIER3 E10 0.014 0.20		GASOLI TIER3	1003329-0212	*	*	*	*	0.0060	0.020			
KFMXR0200GDG	GASOLINE- TIER3 E10 0.022 0.20		GASOLINE- TIER3 E10		*	*	*	*	0.0100	0.020			
KFMXR0260NDX	KFMXR0260NDX GASOLINE- TIER3 E10 0.014 0.20			GASOLINE- TIER3 E10		*	*	*	*.	0.0048	0.020		
	EFFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICA	TION LE	VEL (INCH	IES)			
EVAPORATIVE	FAMILY	LEA	K FAMIL	.Y		CE	RT		STD				
KFMXR0200	GDG	KFMXR0	200GDG	-001		ł	۲				0.02		
KFMXR0260	NDP	KFMXR0	260NDP	-001		ł	+				0.02		
KFMXR0260	KFMXR0260NDX KFMXR0260NDX					ł	۲	0.02					
LDT<6000#GVWF 8500#ALVW; MD\ duty passenger ve emission limit; GV ULEV: ultra LEV; ADSTWC: adsorb	KFMXR0260NDX KFMXR0260NDX-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; 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:												

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; 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; 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

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD				
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT3	2.7	SA	KFMXR0200GDG	1	P				
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT3	2.7	SA	KFMXR0260NDP	1	P				
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT3	2.7	SA	KFMXR0260NDX	1	P				
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT4	2.7	SA	KFMXR0200GDG	1	P				
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT4	2.7	SA	KFMXR0260NDP	1	P				
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT4	2.7	SA	KFMXR0260NDX	1	P				
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT3	2.7	SA	KFMXR0200GDG	1	P				

2019 MODEL YEAR: VEHICLE MODELS INFORMATION



FORD MOTOR COMPANY Executive Order: A-010-2171-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 5 of 5

2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT3	2.7	SA	KFMXR0260NDX	1	P
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT4	2.7	SA	KFMXR0200GDG	1	° P
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT4	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT4	2.7	SA	KFMXR0260NDX	1	P
FORD	F150 2WD	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 2WD	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 2WD	LDT3	2.7	SA	KFMXR0260NDX	1	P
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	2.,7	SA	KFMXR0260NDP	1	P
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0260NDX	1	P
FORD	F150 4WD	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 4WD	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 4WD	LDT3	2.7	SA	KFMXR0260NDX	1	P
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0200GDG	1	P
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0260NDP	1	P
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	KFMXR0260NDX	1	P