

FORD MOTOR COMPANY

Executive Order: A-010-2115

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 1 of 4

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	UP INFO	RMATION				
MODE	- 1	EST GROUP VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL TYPE	
2019	KF	MXT02.52NG			LDT2		DEDICATED SINGLE FUEL VEHICLE			GASOLINE	
	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION CATE	ON CATEGORY INTERIM / INTERMEDIATE IN				
EXH	/ORVR	EVAP			FTP	S	FTP	FTP		SFTP	
15	0000	150000		LEV3	ULEV70	LEV 3 C	OMPOSITE	PM		PM	
SPE	CIAL FE	ATURES & EX SYS	HAUS TEMS		ON CONTRO	L	OBD S	TATUS	EN	IGINE DISPLACEMENT (L)	
1	T	WC(2), WR-H	D2S,	HO2S, E	R, SFI		FULL	ALL MODELS			
*			*				PARTIAL	*		2.5	
* *							RTIAL WITH	*			
		E\	/APOF	RATIVE &	REFUELING	(EVAP/O	RVR) FAMIL	YINFORMATION	١		
EVA	P / ORV	R FAMILY	EVAI	PORATIVE	STD CATE	GORY		SSION STD E CLASS	SF	PECIAL FEATURES	
1	KFMXR01	30NDF	LE	V 3 OPTI	3 OPTION2 WITH FEL			LDT2		HCT	
					EMISSION C	REDIT INF	ORMATION				
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP		NMOG C	REDIT FOR DO	~ 1	OPTIONAL EXH. STD FOR WORK TRUCKS	
		N			N			N		N	
				NMOG	AND FLEET	T AVERAC	E INFORMA	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		IO/NMHC RATIO	PC+LDT (PC+LDT (0-3750 LVW) LDT (3751		NMOG+NOX FLEET STD NMC LDT (3751 LVW-8500 N GVWR) + MDPV (g/mi)		MOG+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.



FORD MOTOR COMPANY

Executive Order: A-010-2115

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 2 of 4

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 at El Monte, California on this

_ day of May 2018

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



FORD MOTOR COMPANY

Executive Order: A-010-2115

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 3 of 4

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS
EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP. HWEFT 50°F 20°F)

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon	
managida, NOga asidan of nitragan, LOHO, farmaldalisada, DNA, anaticulata matter, DAE, as attata	

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 CO (g/mi) (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)		
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	* 1	*	+	*	*	*	*
FTP@UL	GASOLINE- TIER3 E10	0.051	0.070	0.6	1.7	•		0	4	0.000	0.003
50°F @4K	*	*	*	*	*	1	*	*	*		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)
	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	•		*		
HWFET @ UL	GASOLINE-TIER3 E10	0.040	0.070		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.9	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

· ·				US06		SC03	3	COM	POSITE	
	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	*	CERT	*	*		*	*			
9 41.		STD		*	7		*			
		CERT	*	•	0	*	*	0.046	1.3	*
@ UL	GASOLINE- TIER3 E10	STD	•	*	6	*	*	0.090	4.2	*
		BIN						0.110		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test)	@ UL	2D	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
KFMXR0130NDF	GASOLINE- TIER3 E10	0.183	0.400	0.400	0.143	0.400	0.400	0.00	0.05

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
KFMXR0130NDF	E10-EPA	0.03	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.009	0.020		



FORD MOTOR COMPANY

Executive Order: A-010-2115

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 4 of 4

EFFECTIV	E LEAK DIAMETER STANDA	RD AND CERTIFICATION	LEVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
KFMXR0130NDF	KFMXR0130NDF-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: 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; 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

2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	OBD
FORD	TRANSIT CONNECT VAN 2WD	LDT2	2.5	SA6	KFMXR0130NDF	1	F
FORD	TRANSIT CONNECT WAGON FWD	LDT2	2.5	SA6	KFMXR0130NDF	1	F
FORD	TRANSIT CONNECT WAGON LWB FWD	LDT2	2.5	SA6	KFMXR0130NDF	1	F