

# FORD MOTOR COMPANY

Executive Order: A-010-2144

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-14-012;

IT IS ORDERED AND RESOLVED: The following vehicles produced by the manufacturer are certified as plug-in hybrid electric vehicles pursuant to Title 13, California Code of Regulations (13 CCR) Sections 1961 or 1961.2, 1962.2, 1976, 1978 and the incorporated test procedures. Production vehicles shall be in all material respects the same as those for which certification is granted.

WI 11011 V	certinea	non is granted.												
					TEST GR	OUPIN	NFO	RMATION						
MODE		EST GROUP	ROUP VEHICLE CLASS(ES					FUEL CATEGORY				FUEL TYPE		
2019	KF	MXV02.0VZQ	ZQ PC					PLUG-IN HYBRID ELECTRIC VEHICLE			GASOLINE			
USEFUL LIFE (miles) VEHICLE EMISSION								ATEGORY INTERIM / IN			ERMEDIATE IN-USE STD			
EXH/ORVR EVAP					FTP SI			FTP	FTP			SFTP		
15	0000	150000		LEV3	SULEV30	LEV	3 (	COMPOSITE		*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD	ST	ratus .	ENGINE DISPLACEMENT			
1	TWC(2), HO2S, SFI, WR-HO2S, EGR							FULL	. *					
*	*							PARTIAL	7	ALL MODELS 2.0				
*			PARTIAL WIT						Н	*				
		EV	APOR	ATIVE &	REFUELIN	G (EVA	P/O	RVR) FAMI	LY	INFORMATION				
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURES									PECIAL FEATURES				
KFMXR0145HCE LEV 3 OPTION2					OPTION2		PC			нст				
					EMISSION	CREDIT	INF	ORMATION	N	•				
ALLOWANCE FOR TEST NMOG+NOX FLEET N							NON-PZEV ZERO.			IMOG CREDIT F	FOR OPTIONAL EXH. ST			
ALL MODELS N						N		N			N			
				NMOG	AND FLEE	TAVE	RAG	SE INFORM	ΑŢ	ION	<b>_</b>			
RAF RAF NMOG/NMHC RATIO PC+LDT				(0-3750 LVW)		NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)			NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)					
*	*	1.10		*		0.072		0.083			*			
		L						<del></del>	_	. =		1 10 1 5		

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 at El Monte, California on this 3/ day of July 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



KFMXR0145HCE

FUEL TYPE CERT

0.03

GASOLINE-

LEV3 E10

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# **ATTACHMENT**

	EXH	AUS	T AN	DEVA	PORAT	IVE	EMIS	SION	STA	NDARE	S ANI	D CERT	IFIC	ATION	LEVELS	3	
		EXI			ION STAN												
	FU	FUEL TYPE		monoxi adjustn ORVR	nethane; N de; NOx: onent factor [g HC/gallo liles; F: de	xides ; 2DH on dis	s of nitr IS/3DH spensed	ogen; H S [g HC d]: on-bo	CHO: /test]: pard r	formalde 2/3 days efueling	ehyde; F s diurnal vapor re	PM: partic +hot-soa covery; g	ulate k; RL : grar	matter; R [g HC/mi] n; mg: mil	AF: reacti : running ligram; mi	vity loss;	
					NMOG+NOx (g/mi)			CO (g/mi)				Ox mi)	HCH (mg/r				M mi)
				CERT	STO		CERT	STI	D	CERT	STD	CEF	RT	STD	CERT	STD	
FTP@5	ок	ж *		*	*		*	*		*	*			*	*	*	
FTP@l	GASOLTNE-		1	0.02	6 0.03	0	0.2	1.	0	*	*	*		4	*	0.003	
50°F @	4K	*		*	*		*	*		*	*	*		*			
					FUEL TYPE					NMOG+NO					CO (g/mi)		
		-		TOLE THE						CE	RŢ	T STD		CER		STD	
HWFET @ 50K					*				1		*						
HWFET@UL GASOLINE					SOLINE-1	LEV3	V3 E10			0.027 0.030		0					
20°F @ 50K COLD CO E10 REGULAR GA					GAS	SOLINE (TIER3)						0.4		10.0			
				SFTP E	XHAUST	EMIS	SION	STANDA	ARDS	AND CI	RTIFIC	ATION L	EVEL	S			
						US	306			1.	SC03			co	MPOSITE		
	FUEL	TYPE			OG+NOx (g/mi)	1	CO g/mi)	(mg		NMOG (g/s	-	CO (g/mi)		OG+NOx (g/mi)	CO (g/mi)	PM (mg/mi	
@ 4K	*	* CEI		Г	*		*			,		*					
			STD		*	,	*			1		*					
		ASOLINE- LEV3 E10 BI		Г	*		*	1	r	1		*		0.015	0.3	*	
@ UL							* 6		*		*		0.090	4.2	*		
					, , , , , , , , , , , , , , , , , , , ,		¥	141						0.040			
		W	HOLE	/EHICL	E EVAPO	RATI	IVE EM	ISSION	STA	NDARDS	AND	ERTIFIC	ATIO	N LEVEL	S		
						WHO	OLE VE	HICLE	EVAF	PORATIV	E TEST	ING					
	ORATIV	E	FUEL TYPE 3DHS (g		(g/te	/test) @ UL			2DHS (g/test) (		@ UL		RL (g/mi) @ UI		UL		
					CERT S		STD FEL		CE	RT	STD	FEL		· CER	Т	STD	
KFMXF	0145H	CE	GASOL:	10 1751 0		0.3	300 0.300		0.300		0.3	0.300 0.		0.05			
C	RVR / I	FUEL	ONLY	CAN	STER BLE	ED E	VAPO	RATIVE								ELS	
	ORATIV	E	ORVR	(g/gal	lon) @ UL	-			30	CUEL ONLY EVAP & CANIS			RIG	TEST   BLEED CANISTER			
FAMILY		-	EUE TYPE   0-12   0-12				FUEL TYPE (			g/test) @ UL		(g/test) @		UL TEST (g/test) @ 4K			

CERT

STD

CERT

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STD

0.20



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
KFMXR0145HCE	KFMXR0145HCE-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; GWR; gross vehicle weight rating; LWW; loaded vehicle weight; ALWW; adjusted LWW; 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

				T			T	
MODEL NUMBER	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	OBD
1	FORD	FUSION ENERGI	PC	2.0	CV1	KFMXR0145HCE	1	P
2	FORD	FUSION SPECIAL SERVICE VEHICLE	PC	2.0	CV1	KFMXR0145HCE	1	P

## ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION

MODEL	PHEV TYPE	UDDS AER	UDDS EAER	US06 AER	HIGHW	AY (MILES)	ZEV ALLOWANCE	
NUMBER	PHEVITE	(MILES)	(MILES)	(MILES)	AER	EAER		
1	TZEV	35.8	35.8	0	30.3	30.4	0.66	
2	TŻEV	35.8	35.8	0	30.3	30.4	0.66	