California Environmental Protection Agency

⊘ Air Resources Board

FORD MOTOR COMPANY

Executive Order: A-010-1975

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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Pursuant to the authority vested in the 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 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	- I TI	TEST GROUP VEHICLE CLASS(ES)				3)		FUEL CATEGORY			GORY	FUEL TYPE			
2017	2017 HFMXT02.32EX				L	DT2, LDT3	DT2 TDT3			SINGLE FUEL HICLE			GASOLINE		
	USEFUL	LIFE	(miles)		VE	HICLE EMISSI	ON (CAT	EGORY		IN	ITERIM / INT	ERME	DIAT	E IN-USE STD
EXH	/ORVR		EVAP			FTP		5	SFTP			FTP			SFTP
12	0000		150000		LE	V2 ULEV	2 III.EV		2 SFTP ANDARD		*		*		*
SPE	CIAL FE	ATUR		AUST I	EMISS	ION CONTROL	-		ОВ	BD S	TAT	JS	ENGINE DISPLACEMEN		
1	21	WC, V	VR-HO2S,	HO2S,	, TC,	CAC, DFI			FULL		AL	L MODELS			
*				*					PARTIAL	-		*		2.3	
*	* *							PA	ARTIAL W	ΊΤΗ		*	1		
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EVA	P / ORV	R FAN	MILY	EVAPO	DRATIV	/E STD CATEG	OR	Y	EVAP EMISSION STD SPECIAL FEATURE VEHICLE CLASS			FEATURES			
H	IFMXR01	45GBI	3			LEV 2			LDT2			*			
H	FMXR01	45GB0	2			LEV 2				LDT3 *			*		
						EMISSION CF	REDI	T IN	FORMATI	ON					
	Α	LLOW	ANCE FO	R TEST	r GRO	UP	_		OG CREDI			NMOG CR		OR	OPTIONAL EXH. STD FOR WORK
BASELINE PZEV AT PZEV				PZEV		TZEV	N	NON-PZEV ZERO-EV		VAP DOR)K	TRUCKS		
* * *							N			N	N N				
NMOG AND FLEET AVERAGE INFORMATION															
NMOG RAF	CH4 RAF NMOG/NMHC RATIO RATIO			PC+LDT (0	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)							NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)			
*	* * 1.04 * 0.08				.086	5			0	.101			*		

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.

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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

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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 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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

FUEL TYPE

-1 50 - 1 - 1											
		NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
1000		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	GASOLINE - TIER 2 UNLEADED	0.022	0.040	0.8	1.7	0.03	0.05	*	8	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.036	0.055	0.9	2.1	0.05	0.07	*	11	*	0.01
50°F @4K	GASOLINE - TIER 2	0.030	0.080	0.6	1.7	0.01	0.05	*	16		

	FUEL TYPE	NOx	(g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0.02	0.07			
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.04	0.09	AND THE RESERVE AND THE	The second second	
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			2.5	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	CON	POSITE	
	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	GASOLINE - TIER 2 UNLEADED	CERT	0.03	2.5		0.00	0.7			
0		STD	0.25	10.5		0.27	3.5		CO PM	
		CERT	*	*	*	*	*	0.079	*	*
@ UL	GASOLINE - TIER 2 UNLEADED	STD	*	*	*	*	*	0.103	*	*
		BIN						0.130	g) (g/mi) (mg/mi) (mg/	

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) (@ UL	2DI	HS (g/test) @	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HFMXR0145GBB	GASOLINE - TIER 2 UNLEADED	0.30	0.65	*	0.34	0.85	*	0.00	0.05
HFMXR0145GBC	GASOLINE - TIER 2 UNLEADED	0.30	0.90	*	0.34	1.15	*	0.00	0.05

UNLEADED

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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS **FUEL ONLY EVAP & CANISTER BLEED** ORVR (g/gallon) @ UL 3DHS RIG TEST **2DHS RIG TEST BLEED CANISTER EVAPORATIVE** (g/test) @ UL TEST (g/test) @ 4K **FAMILY FUEL TYPE** (g/test) @ UL FUEL TYPE CERT STD **CERT** STD **CERT** STD CERT STD GASOLINE . HFMXR0145GBB TIER 2 0.02 0.20 UNLEADED GASOLINE -HFMXR0145GBC TIER 2 0.02 0.20 * +

t: 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: PZEV: partial ZEV: AT PZEV: advanced technology PZEV: 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; 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

	2017 MODE	ELS INFORI	MAT	ION				
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
FORD	EXPLORER AWD	LDT3	2.3	SA6	HFMXR0145GBC	1	F	*
FORD	EXPLORER FWD	LDT2	2.3	SA6	HFMXR0145GBB	1	F	*