California Environmental Protection Agency

OB Air Resources Board

FORD MOTOR COMPANY

Executive Order: A-010-2003

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

Page 1 of 4

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 GROU	JP IN	FORMAT	ION					
MODE	- 1 T	EST G	ROUP	VE	HICLE CLASS(ES	5)	FUEL CATEGORY			FUEL TYPE			
2017	н	3.53DC	LDT3	LDT3 FLEX-FUE			EL V	EHICLE	85% ETHA	NOL, GASOLINE			
	USEFUL	LIFE	(miles)		VEHICLE EMISSION	ON C	ATEGOR	Y	IN'	TERIM / INT	ERMEDIA	TE IN-USE STD	
EXH	ORVR	1	EVAP		FTP		SFTP			FTP		SFTP	
			COU	A TIER2 BIN4 NTED AS ARB LEV2 ULEV	LEV 2 SFTP STANDARD			*			*		
SPE	CIAL FE	ATUR		AUST EMIS	SSION CONTROL			OBD ST	TATU	IS	ENGINE	DISPLACEMENT (L)	
1		2TW	C, 2WR-H	1028, 2НО	2S, SFI		FUI	L	ALI	MODELS			
*				*			PART	TIAL		*		3.5	
*				*			PARTIAI FINI						
			EV	APORATIV	E & REFUELING	(EVA	P/ORVR)	FAMILY	INF	ORMATION			
EVA	P / ORV	R FAN	MILY	EVAPORA	TIVE STD CATEG	ORY	RY EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES		
H	FMXR01	60AB			LEV 2	V 2 LDT3					*		
H	FMXR02	235NBC			LEV 2	EV 2 LDT3					*		
		***************************************			EMISSION CR	EDIT	INFORM	ATION					
	A	LLOW	ANCE FO	R TEST GR	OUP	_	IMOG CR			NMOG CR		OPTIONAL EXP	
BASE	LINE P	ZEV	AT	PZEV	TZEV	NO	N-PZEV	ZERO-E	VAP	DC	OR	TRUCKS	
	*			*	*		1	1		ı	ı	N	
				NN	OG AND FLEET	AVE	RAGE IN	FORMAT	ION				
NMOG RAF	PAIIO		PC+LDT (0	NMOG+NOX FLEE PC+LDT (0-3750 I (g/mi)		LDT (NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi		00 MDV (10001-1400				
*	*	:	1.04	*	0.	086			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.

FORD MOTOR COMPANY Executive Order: A-010-2003

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

Page 2 of 4

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).

BE IT FURTHER RESOLVED:

The listed vehicle models are federally certified, and are certified under the provisions of 13 CCR Section 1961.2(a)(12) and the incorporated test procedures.

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 August 2016

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

FORD MOTOR COMPANY

Executive Order: A-010-2003

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, 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

FUEL TYPE

The state of the s											
		NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	E85-EPA (GASOLINE - TIER 2 UNLEADED)	0.0427 (0.0443)	0.070 (0.070)	0.78 (0.63)	2.1 (2.1)	0.012 (0.018)	0.04	1.1 (*)	11 (11)	* (*)	0.01
50°F @4K	*	*	*	*	*	*	*	*	*	Martin	

	FUEL TVDE	NOx	(g/mi)	CO (g/mi)
	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*	CASTATATATATATATATATATATATATATATATATATAT	STATE OF STA
HWFET @ UL	E85-EPA (GASOLINE - TIER 2 UNLEADED)	0.011 (0.013)	0.05 (0.05)	1102	
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE	Mere Carl	GAR.	0.82	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	CON	POSITE	0
	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	0.04	1.73		0.010	0.33			A CANADA
@ ···		STD	0.40	10.5		0.31	3.5	and the second second second second second	Almer and the second stable but an	Maria a security
		CERT	*	*	*	*	*	*	*	*
@ UL	*	STD	*	*	*	*	*	*	*	*
		BIN				32 4 9, 5		*		Military.

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			WHOLE						
	FUEL TYPE	3DHS	S (g/test) (@ UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HFMXR0160ABC	E10-EPA	0.397	0.90	*	. *	1.15	*	0.000	0.05
HFMXR0235NBC	E10-EPA	0.618	0.90	*	*	1.15	*	0.000	0.05

FORD MOTOR COMPANY

Executive Order: A-010-2003

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 4 of 4

@ Air Resources Board

ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS	
		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	
HFMXR0160ABC	E10-EPA	0.031	0.20	*	*	*	*	*	*	*	
HFMXR0235NBC	E10-EPA	0.04	0.20	*	*	*	*	*	*	*	

: 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 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
FORD	F150 PICKUP TRUCK 2WD FFV	LDT3	3.5	A6	HFMXR0160ABC	1	F	*
FORD	F150 PICKUP TRUCK 2WD FFV	LDT3	3.5	A6	HFMXR0235NBC	1	F	*
FORD	F150 PICKUP TRUCK 4WD FFV	LDT3	3.5	A6	HFMXR0160ABC	1	F	*
FORD	F150 PICKUP TRUCK 4WD FFV	LDT3	3.5	A6	HFMXR0235NBC	1	F	*