California Environmental Protection Agency

FORD MOTOR COMPANY

EXECUTIVE ORDER A-010-1858

O Air Resources Board

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 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.

MODEL YEAR	TEST GROUP VEHICLE TYPE		EXHAUST EMISSION STANDARD CATEGORY	USEFUL L	FE (miles)	FUEL TYPE		
2015	FFMXT03.53DC	LDT: 6001-8500# GVW, 3751-	USEPA Bin 4 Counted as	. EXH / ORVR	EVAP	Flexible Fuel: Ethanol (E85) /		
		5750# ALVW	ARB LEV2 ULEV	120K	150K	Gasoline (Tier 2 Unleade		
No.		SPECIAL FEATURES	EVAPORATIVE FAI	EVAPORATIVE FAMILY (EVAF)				
1	2TWC, 2WR-	HO2S, 2HO2S, SFI, OBD(P)	FFMXR0160					
*		*	FFMXR0235	1	3.5			
*		•	*					

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.

BE IT FURTHER RESOLVED:

That the exhaust and the 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 Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

That 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, amended December 6, 2012).

BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13. California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California 2001 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT, and MDV, amended December 6, 2012 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer that becomes, after MY2009, a largevolume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volumemanufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

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.

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New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 2 of 3

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 October 2014.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division **California Environmental Protection Agency**

O Air Resources Board

F-150 PICKUP 2WD FFV

F150 PICKUP 4WD FFV

F150 PICKUP 4WD FFV

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FORD MOTOR COMPANY

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New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 3

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Partial

Partial

Partial

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

CERT	AVERAGE [g/mi] CH4		@ RAF=* RAF = *	AF = * NMOG or		CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitrogen HCH0=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diumal+										
VENI	STD	NMOG	NMHC	NMHC	hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram ml=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure											
		CERT [g/mi]	CERT	STD [g/mi]						ICHO [mg/mi]		PM [g/mi]		Hwy NOx [g/m]		
0.119	0.119		[g/mi]		CERT	STD	CERT		CE		TD	CERT	STD	CERT	STE	
1. Alight	@ 50K	*	*	*	*	*	*	*	*		*	*	*	*	*	
山田安行	@UL	0.043 (0.044)	*	0.070 (0.070)	0.8 (0.7)	2.1 (2.1)	0.01 (0.02)	0.04) 1.		1.	* (*)	0.01 (0.01)	0.01 (0.01)	0.0	
@	50°F & 4K	*	*	*	*	*	*	*	*		*	*	*	*	*	
CO [g/m]] @ 20°F & 50K			NMHC+NO (compo							[g/mi] 506]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]		
		A ALAN		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STO	
ERT	(0.9)	SFTP @ 4	000 miles	*	*	*	*	(0.04)	(0.40)	(1.7)	(10.5)	(0.01)	(0.31)	(0.3)	(3.5	
STD	(12.5)	SFTP	@ * miles	*	*	*	*	*	*	*	*	*	*	*	*	
Evaporative Family		nily	3-Days Diurnal + Hot Soak (grams/test) @ UL			2-Days Diurnal + Hot Soak (grams/test) @ UL		Running Loss (grams/mile) @ UL			On-Board Refueling Vapor Recovery (grams/galion) @ UL					
			CERT	S	D	CERT	S	TD	CER	т	STD		CERT		STD	
FFMXR0160ABC		BC	0.40	0.	90	*	1.15		0.000 0.05		0.05		0.03		0.20	
FFMXR0235NBC		BC	0.62	0.	90 *		1	1.15		0.000 0.05		0.04		0.20		
*						* *		*	*		*	* *		*		
*			*			* *		*	* *		*	*		*		
-not app.														1,3131-31	50#LV	
DT3=LD7 00000#GV ALVW=ad WU=warm oxidation of AFS=Wide sensor; EC sequential diagnostic	WR; MDV8 justed LVW i-up catalyst catalyst; CT e range/line GR=exhaust / multiport fi : DOR=dire	0#GVWR,3 5=MDV 100 7; LEV=low 8; NAC=NO 0X/PTOX= ar/heated a t gas recirc uel injection act ozone re	751-5750#/ emission ve continuous ir-fuel ratio ulation; EGI n; DFI=direc educing: HC	ALVW; LD GVWR; EC ehicle; ULE n catalyst; \$ /periodic tr sensor; No RC=EGR c t fuel inject T=Hydroca	S= emiss V=ultra L SCR-U or ap oxidize DXS= NO coler; AIF ion; TC/S rbon Tran	ion control EV; SULE SCRC/SC er; DPF = E X sensor; I VAIRE=se SC= turbo/ b; BCAN=t	system; S V=super L CR-N or S Diesel Par RDQS=re condary a super cha	751-8500 STD= star JLEV; TW CRC-NH3 ticulate Fi ductant qu ir injection rger; CAC oon canisto	#ALVW; hdard; Ci C/OC=3 = select lter (activity uality ser h (belt dr = charge er; prefix	MDV=me ERT= cer -way/oxid tive cataly ve); HO2: nsor; NH3 tiven)/(ele air coole 2=paralle	edium-di tification lizing ca tic redu S/O2S= S = Am ctric driv er; OBD	uty vehicle; i; LVW=loa talyst; ADS ction-urea/a neated/oxy(monia sens ven); PAIR: (F)/(P)(B)=	MDV4=N ded vehic TWC=ad ammonia; gen senso sor; PMS= =pulsed A full/partia	Ile weight; sorbing TV NH3OC=; or; WR-HO particulate IR; SFI/MI I/both on-b	VC; ammon 2S or e matter FI=	
DT3=LD7 0000#GV LVW=ad VU=warm xidation c NFS=Wide ensor; EC equential iagnostic	WR; MDV8 justed LVW -up catalyst catalyst; CT e range/line GR=exhaust / multiport fi	0#GVWR,3 5=MDV 100 7; LEV=low 8; NAC=NO 0X/PTOX= ar/heated a t gas recirc uel injection act ozone re	1751-5750#/ 01-14000#4 emission vex x adsorption c continuouss iir-fuel ratio ulation; EGI aducing; HC s; LPG=liqu	ALVW; LD GVWR; EC ehicle; ULE n catalyst; \$ /periodic tr sensor; No RC=EGR c t fuel inject T=Hydroca	S= emiss V=ultra L SCR-U or ap oxidize DXS= NO cooler; AIF ion; TC/S irbon Traj leum gas	ion control EV; SULE SCRC/SC er; DPF = [X sensor; I XAIRE=se SC= turbol p; BCAN=t ; E85="85	System; S V=super I CR-N or S Diesel Par RDQS=re condary a super cha bleed cart %" Ethano	751-85004 STD= star JLEV; TW CRC-NH3 ticulate Fi ductant qu ir injection rger; CAC bon caniste bl ("15%"g	#ALVW; hdard; Cl C/OC=3 = select lter (actinuality ser the (belt dr C=charge er; prefix (asoline)	MDV=me ERT= cer -way/oxid tive cataly ve); HO2: hsor; NH3 iven)/(ele air coole 2=parall Fuel;	edium-di tificatior lizing ca tic redu S/O2S= S = Am ctric driv er; OBD el; (2) su	uty vehicle; ;; LVW=loa talyst; ADS ction-urea/a neated/oxy(monia sens ven); PAIR: (F)/(P)(B)= uffix=series	MDV4=N ded vehic TWC=ad ammonia; gen senso sor; PMS= =pulsed A full/partia	IDV 8501- sorbing TV NH3OC= pr; WR-HO particulate IR; SFI/MI I/both on-b	VC; ammon 2S or e matte	
DT3=LD 0000#GV LLVW=ad VU=warm xidation c FS=Wide ensor; EC equential iagnostic; ompresse	WR; MDV8 justed LVW i-up catalyst catalyst; CT e range/line GR=exhaust / multiport fi : DOR=dire	0#GVWR,3 5=MDV 100 7; LEV=low 8; NAC=NO 0X/PTOX= ar/heated a t gas recirc uel injection act ozone re	1751-5750#/ 01-14000#4 emission vex x adsorption c continuouss iir-fuel ratio ulation; EGI aducing; HC s; LPG=liqu	ALVW; LD GVWR; EC ehicle; ULE n catalyst; 4 /periodic tr sensor; NG RC=EGR c tt fuel inject T=Hydroca lefied petro	S= emiss V=ultra L SCR-U or ap oxidize DXS= NO cooler; AIF ion; TC/S irbon Traj leum gas	ion control EV; SULE SCRC/SO F; DPF = D X sensor; I VAIRE=se SC= turbo/, D; BCAN=t ; E85="85 AR: VE	System; S V=super I CR-N or S Diesel Par RDQS=re condary a super cha bleed cart %" Ethano	751-85004 STD= star JLEV; TW CRC-NH3 ticulate Fi ductant qu ir injection rger; CAC bon caniste bl ("15%"g	#ALVW; dard; C' C/OC=3 B= select lter (acti- uality ser- n (belt dr C=charge er; prefix asoline) ELS IN S E	MDV=me ERT= cer -way/oxid tive cataly ve); HO2: hsor; NH3 iven)/(ele air coole 2=parall Fuel;	edium-d tificatior lizing ca tric redu \$/02\$= \$/02\$=	uty vehicle; ;; LVW=loa talyst; ADS ction-urea/a neated/oxy(monia sens ven); PAIR: (F)/(P)(B)= uffix=series	MDV4=N ded vehic TWC=ad ammonia; gen senso sor; PMS= =pulsed A full/partia	IDV 8501- ele weight; sorbing TV NH30C= pr; WR-HO pr; WR-HO pr; SFI/MI I/both on-b NG=	VC; ammon 2S or e matte	

FFMXR0235NBC

FFMXR0160ABC

FFMXR0235NBC

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3.5

3.5

3.5

LDT3

LDT3

LDT3