

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.

TEST GROUP INFORMATION						
MODEL YEAR	TEST GROUP	VEHICLE CLASS(ES)	FUEL CATEGORY	FUEL TYPE		
2018	JFMXT03.03DZ	LDT3, LDT4	DEDICATED SINGLE FUEL VEHICLE	DIESEL		
USEFUL LIFE (miles)		VEHICLE EMISSION CATEGORY		INTERIM / INTERMEDIATE IN-USE STD		
EXH/ORVR	EVAP	FTP	SFTP	FTP	SFTP	
150000	*	LEV3 LEV160	LEV3 COMPOSITE	PM	PM	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS			OBD STATUS		ENGINE DISPLACEMENT (L)	
1	TC, DFI, CAC, EGR, EGRC, OC, DPF, SCRC, NOXS(2), RDQS		FULL	*	3.0	
*	*		PARTIAL	*		
*	*		PARTIAL WITH FINES	ALL MODELS		
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION						
EVAP / ORVR FAMILY	EVAPORATIVE STD CATEGORY	EVAP EMISSION STD	VEHICLE CLASS	SPECIAL FEATURES		
*	*	*	*	*		
*	*	*	*	*		
*	*	*	*	*		
EMISSION CREDIT INFORMATION						
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY	NMOG CREDIT FOR NON-PZEV ZERO-EVAP	NMOG CREDIT FOR DOR		OPTIONAL EXH. STD FOR WORK TRUCKS		
N	N	N		N		
NMOG AND FLEET AVERAGE INFORMATION						
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/ml)	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/ml)	NMOG+NOX FLEET STD MDV (g/ml)
*	*	*	*	0.079	0.092	*

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 fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (Title 13, California Code of Regulations (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 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 vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II system of the listed vehicle models has been determined to have ten deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of three hundred seventy five dollars (\$375) per vehicle for the third through tenth deficiencies in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2018 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154. Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

BE IT FURTHER RESOLVED:

Per Ford's request for conditional Executive Order (EO) approval (Ford's Request) dated June 7, 2018, the listed vehicle models are certified conditionally on Ford's implementation by October 10, 2018 via a running change, to be approved by CARB, for the improvement of the emissions controls described in Ford's Request. Ford shall also implement a service campaign to incorporate the improvements in the CARB-approved running change for vehicles produced before October 10, 2018. Ford shall report to CARB, by November 10, 2019, the Vehicle Identification Numbers (VINs) of pre-October 10, 2018 vehicles that do not have the improvements provided in the CARB-approved running change. Ford shall also submit a voluntary recall plan for CARB's approval to remedy production vehicles that do not have the CARB-approved updated calibrations. Failure to submit the required running change together with support information and test data in the allowed time, or failure of the submitted test data or information to demonstrate compliance with the emission standards, OBD II requirements, or improved performance of the emissions controls described in Ford's Request, shall be cause for the Executive Officer to revoke the conditional EO ab initio. Vehicles sold or introduced into commerce under the revoked conditional EO shall be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

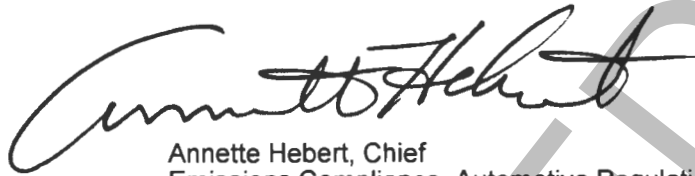
BE IT FURTHER RESOLVED:

Pursuant to the Ford 2018 model-year (MY) 3.0L diesel F-150 OBD Request letter (Ford Conditional OBD Request) dated April 9, 2018, CARB conditionally approves the 2018 MY test group

JFMXT03.03DZ with 10 deficiencies based on Ford's fulfillment, to the satisfaction of the Executive Officer or his delegate, of all conditions agreed upon in the Ford Conditional OBD Request letter. Failure to fulfill any of the conditions in the Ford Conditional OBD Request letter, failure to respond satisfactorily to any question from CARB, or failure of test data, generated by Ford or by CARB, to demonstrate compliance with OBD II requirements, shall be cause for CARB to revoke the conditional EO ab initio. Any vehicle offered for sale, introduced into commerce, imported, delivered, purchased, rented, leased, acquired, or received under the conditional EO shall be consequently deemed uncertified and shall be subject to enforcement actions and penalties under all applicable laws and regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 8 day of June 2018.



Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division

SUPERSEDED



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; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitrogen; HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2DHS/3DHS [g/test]=2/3 days diurnal+hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram; mi=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure

FUEL TYPE	NMHC+NOx (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	DIESEL-EPA	0.152	0.160	0.1	4.2	*	*	4	0.001	0.003
50°F @ 4K	*	*	*	*	*	*	*	*	*	*

FUEL TYPE	NMHC+NOx (g/mi)		CO (g/mi)	
	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*	*
HWFET @ UL	DIESEL-EPA	0.052	0.160	*
20°F @ 50K	*	*	*	*

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

FUEL TYPE	US06			SC03		COMPOSITE		
	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	CERT	*	*	*	*	*	*	*
	STD	*	*	*	*	*	*	*
@ UL	CERT	*	*	1	*	0.134	0.1	*
	STD	*	*	10	*	0.097	4.2	*
	BIN	*	*	*	*	0.180	*	*

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE	WHOLE VEHICLE EVAPORATIVE TESTING						RL (g/mi) @ UL	
		3DHS (g/test) @ UL			2DHS (g/test) @ UL			CERT	STD
		CERT	STD	FEL	CERT	STD	FEL		
*	*	*	*	*	*	*	*	*	
*	*	*	*	*	*	*	*	*	
*	*	*	*	*	*	*	*	*	

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

EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL		FUEL ONLY EVAP & CANISTER BLEED						
	FUEL TYPE	CERT	STD	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K	
				CERT	STD	CERT	STD	CERT	STD
*	*	*	*	*	*	*	*	*	
*	*	*	*	*	*	*	*	*	

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)

EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
*	*	*	*

*: 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: medium-duty 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; 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; SF/MFI: sequential/multiport fuel injection; DF/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

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 2WD	LDT3	3.0	SA10	*	1	\$
FORD	F150 2WD	LDT4	3.0	SA10	*	1	\$
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	3.0	SA10	*	1	\$
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	3.0	SA10	*	1	\$
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT4	3.0	SA10	*	1	\$
FORD	F150 PICKUP 4WD	LDT3	3.0	SA10	*	1	\$
FORD	F150 PICKUP 4WD	LDT4	3.0	SA10	*	1	\$
FORD	F150 PICKUP 4WD XL/XLT	LDT3	3.0	SA10	*	1	\$