

Executive Order: A-010-2112-1
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: 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													
MOD YEA		EST GROUP		VEHIC	VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
201	2018 JFMXT03.03DZ LDT3,						DEDICAT			,	DIESEL		
	USEFU	L LIFE (miles)	VEI	VEHICLE EMISSION CATEGOR				INTERIM / IN	ITERN	ERMEDIATE IN-USE STD			
EXH/ORVR EVAP					FTP			TP	FTP		SFTP		
150000 *				LEV3	3 LEV160 LEV 3 COMP			OMPOSITE	PM		PM		
SP	SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							OBD S	TATUS	EN	ENGINE DISPLACEMENT (L)		
1	TC, DFI, CAC, EGR, EGRC, OC, DPF, SCRC, NOXS(2), RDQS							FULL	*				
*	* .							ARTIAL	*	71	3.0		
*			,	*			PARTIAL WITH FINES		ALL MODELS				
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EV	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	*			*			*			*			
				1	EMISSION C	REDIT	INFO	RMATION					
	REDIT FO	OX FLEET AVE OR EXTENDED RRANTY		NMOG CREDIT FOR NON-PZEV ZERO-EVAP				REDIT FOR DO	R 1	OPTIONAL EXH. STD FOR WORK TRUCKS			
N N						N N				N			
NMOG AND FLEET AVERAGE INFORMATION													
NMOG RAF	I NMOC/NMHC I DC 1 DT /0 378				0-375		V) LDT	MOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	* * * * 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. (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).

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.

BE IT FURTHER RESOLVED:

Ford shall implement a service campaign for vehicles produced before October 10, 2018 to incorporate the calibration update approved herein. 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 updated calibration. Ford shall also submit a voluntary recall plan for CARB's approval to remedy production vehicles that do not have the updated calibrations.

day of November 2018.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

This Executive Order hereby supersedes Executive Order A-010-2112 dated June 8, 2018.

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

Executed at El Monte, California on this

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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	EXH			COLUMN TWO IS NOT THE OWNER.					NAME AND ADDRESS OF THE OWNER, TH					CATION		ELS	3			
		EXH	IAUST	EMISS	ION S	TAND	ARDS A	AND CEF	RTIFIC	ATION L	EVELS	(FTP, I	WFE.	T, 50°F, 2	20°F)					
FUE		C m ac O		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																
				NMHC+NOx (g/mi)			CO (g/mi)		N (g		HCHO (mg/mi									
				CERT STD		STD	CERT STD		D	CERT STD		CERT		STD	STD CERT		STD			
FTP@5	FTP@50K		*			*	*	*		*	*		*	*	*		*			
FTP@I	JL DIE	SEL-	EPA	0.152	2 0	.160	0.1	4.	2	*	*		*	4 0.0		01	0.003			
50°F @	4K	. *		*		*	*	*		*	*		*	*		74.4 ·	1			
9.00	N.	T					_			NI	NMHC+NOx (g/m			i) ,		CO (g/mi)				
		İ		FUEL TYPE									TD CE							
HWFET @ 50K						*			,	*		*		1374		parkyt.				
HWFE	T@UL			DIESEL-EPA							0.052		0.160							
20°F	@ 50K		-	*									*		*		*			
			5	FTP E	XHAU	ST EM	ISSION	STAND	ARDS	AND C	ERTIFIC	ATION	LEVE	LS						
					US06				SC03				COMPOSITE							
	FUEL	JEL TYPE		NMHC+NOx (g/mi)		Ox	CO PM (g/mi) (mg/			NMHC+NOx (g/mi)		CO (g/mi)		NMHC+NOx (g/mi)		CO /mi)	PM (mg/mi)			
@ 4K	*	* CER		*			*	*		*		*								
				*			*	*		*		*			F3 5 5					
		CER ESEL-EPA STI BIN		•	*		*	1		*		*	0.134		0.1		*			
@ UL	DIESEI				*		*	1	LO	*		*		0.097		4.2	*			
													0.180							
		WH	IOLE V	EHICL	E EVA	PORA	TIVE E	MISSION	N STA	NDARD	S AND C	ERTIF	CATIO	ON LEVE	LS					
						WI	HOLE V	EHICLE	EVA	PORATI	/E TEST	ING		1						
EVAPORATIVE FAMILY		E FUEL 1		TYPE 3D		DHS (g	HS (g/test) @			2DHS (g/test)		@ UL		RL (g/r		ni) @ UL				
				CE		T 5	STD	FEL	FEL CE		RT STD		EL	CERT		STD				
*			*	* *			*	*	* 1		*	*		* *						
	ORVR / F	UEL (ONLY /	CANIS	STERI	BLEED	EVAP	ORATIV						RTIFICA		LEVE	LS			
EVAP	ORATIV	E	ORVR	(g/gall	on) @	UL		******		UEL ON DHS RIG				R BLEE		D CA	NISTER			
FAMILY							FUE	L TYPE		g/test) @ UL		(g/	test) @	st) @ UL		TEST (g/test) @				
*		FU	JEL TY	PE C	ERT *	STD *		*			RT STD		T	STD	CER	T	STD			
					FR ST	* * * * STANDARD AND CERTIFICATION I					E//EI	*								
EVAF	ORATIV					FAMI		ANDAN	ID AI	CERT		TION	4 1		STD					
	* *							+	*					*						
					***					-										



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t: 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; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ŽEV: 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; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

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	\$					