

Executive Order: A-010-2135

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	NFORMA"	TION				
MODE		EST GROUP	VEHIC	VEHICLE CLASS(ES)			TEGORY	FUEL TYPE		
2019	KE	MXD06.771D		MDV5	DED		SINGLE FUEL	DIESEL		
L	JSEFUL	LIFE (miles)	VE	HICLE EMISSION	CATEGOR	RY	INTERIM I INTE	RMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP SF			FTP	SFTP		
120000 *			LEV	ULEV *						
SPE	CIAL FE		HAUST EMISSI	ON CONTROL		OBD ST	ATUS	ENGINE DISPLACEMENT		
1	TC, I		R, EGRC, OC, S(2), RDQS	DPF, SCRC,	FU	L				
*			*		PAR	TIAL	*	6.7		
*			*		PARTIA		ALL MODELS			
1		E,	VAPORATIVE &	REFUELING (EV	AP/ORVR)	FAMILY	INFORMATION			
EVA	P / ORV	R FAMILY	EVAPORATIV	E STO CATEGOR	_	AP EMIS VEHICLE	SION STD CLASS	SPECIAL FEATURES		
*			• /					*		
				EMISSION CRED	T INFORM	ATION				
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY	NMOG CI	REDIT FOR NON-	PZEV	IMOG CR	EDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N		N			N	N		
			NMOC	AND FLEET AV	ERAGE IN	FORMAT	ION			
MOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	HCHO/NMHC RATIO		3500 GVW		NOX FLEET STD 01-10000 GVWR) (g/mi)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*		*	*			*	*		

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 seven deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of two hundred twenty five dollars (\$225) per vehicle for the third through seventh 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 2019 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:

Per Ford's request for conditional Executive Order (EO) approval (Ford's Request) dated June 28, 2018, the listed vehicle models are certified conditionally on Ford's implementation by November 5, 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 November 5, 2018. Ford shall report to CARB, by December 5, 2019, the Vehicle Identification Numbers (VINs) of pre-November 5, 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.

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

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Émissions Compliance, Automotive Regulations and Science Division



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# **ATTACHMENT**

					00.00		TIAC	7									
	EXH		_			VE EMI									LS	_	
	FUI	FUEL TYPE		H4: met onoxide ljustmer RVR [g	hane; NN; NOx: or nt factor; HC/gallo	MOG: non- xides of ni 2DHS/3D n dispens rees Fahr	-CH4 org itrogen; H HS [g H0 ed]: on-b	anic ga ICHO: f C/test]: 2 oard re	s; HC: formald 2/3 day fueling	hydroca ehyde; l s diurna vapor re	rbon; Ni PM: part i+hot-so ecovery;	MHC: iculate ak; Rl g: gra	non-CH4 matter; [g HC/n m; mg: n	HC; CO RAF: rea ni]: runni nilligram;	activity ng loss;	K:	
				NMHC (g/mi)			CO (g/mi)		NOx (g/mi)			HCHO (mg/mi)		PM (g/m			
				CERT	STD	CER	T ST	D C	CERT	STE	CE	RT	STD	CER	T ST	D	
TP@5	)K	*		*	*	*	*		* 1			•	*	*	*		
FTP@L		SEL-EP	A (	0.039	0.16	7 0.5	7.	3	0.3	.0.4	5	.1	21	0.0	0.0	)6	
60°F @4	IK	*		*	*	*	*		*			*	*				
		FUE			FUEL T	L TYPE			NOX		(g/mi)		CERT		O (g/mi)		
HWFET @ 50K			*							*							
HWFE	T@UL			1	DIESEL-	EPA			0	.2	0.	8			1-4-1		
20°F	@ 50K				*			U			784	31.7	*		*		
			SF	TP EX	HAUST	MISSION	STAND	ARDS	AND C			LEVE					
6				US06					SC03				COMPOSITE				
	FUEL T	UEL TYPE			C+NOx mi)	(g/mi)		M g/mi)		+NOx mi)	CO (g/mi)		MHC+NC (g/mi)	)x C		M /mi	
@ 4K	*		ERT		*				•	٠.	*					_	
			STD		'	*				*	*				1		
		* ST				* *	-	*		*	*	+	*	,		*	
@ UL	*				•	*		*	1	*	*	-	*	*	1	*	
			BIN							2 4 11 5		-	*				
		WHO	LE VE	HICLE		RATIVE E						CATIO	ON LEVE	LS			
EVAPORATIVE FU		EL TY	PE				ICLE EVAPORATIVE TESTING L 2DHS (g/test) @ UL					RL (g/mi) @ UL					
				CERT		STD	FEL	CER	ERT STD		F	EL	CE	RT	STD	STD	
			Y		*	*	*	*		*	-	*			*	-	
0	RVR / F	UEL ON	ILY / C	CANIST	ER BLE	ED EVAP	ORATIVI	EMIS	SION S	TANDA	RDS A	ND CE	RTIFICA	TION L	EVELS	-	
								FU	EL ON	LY EVA	P & CA	NISTE	R BLEE	D			
EVAPORATIVE FAMILY		Of	ORVR (g/gallon) @ UL			FUE	FUEL TYPE		(g/test) @ UL			2DHS RIG TEST (g/test) @ UL		BLEED CANISTEI TEST (g/test) @ 4			
		FUEL TYPE		E CEF	CERT STD						CER	T	STD CERT				
*			* * *			*		* *		*			*				
		EFFE	CTIVI	ELEA	( DIAMI	ETER ST	ANDAR	NA DI	CER	TIFICA	TION	EVE	L (INCH	ES)			
EVAPORATIVE FAMILY			L	EAK FAI	AK FAMILY			CERT				STD					
	*				*				*					*			



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\*: 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; GWR; 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; 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 sanister; 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

# 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F350 2WD BED DELETE DIESEL	MDV5	6.7	SA6	*	1	\$
FORD	F350 2WD DIESEL	MDV5	6.7	SA6	*	1	\$
FORD	F350 4WD BED DELETE DIESEL	MDV5	6.7	SA6	*	1	\$
FORD	F350 4WD DIESEL	MDV5	6.7	SA6	*	1	. \$
FORD	F450 4X2 PICKUP DIESEL	MDV5	6.7	SA6	*	1	\$
FORD	F450 4X4 PICKUP DIESEL	MDV5	6.7	SA6	*	1	\$