

Executive Order: A-010-2116

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 GRO	UP IN	IFOR	MATION	_					
MOD	EL -	EST GROUP	T		VEHIC					_	ATECORY		FUEL TYPE		
YEA	R	EST GROUP	\perp	VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL LIPE			
201	9 KE	MXV02.3VJY				PC		DEDICATED SINGLE FUEL VEHICLE				GASOLINE			
	USEFUL LIFE (miles) VEHICLE EMISSION					ION C	CATEGORY INTERIM / INT			INTERIM / INT	ΓER	RMEDIATE IN-USE STD			
EX	H/ORVR	EVAF				FTP		SF	TP		FTP		SFTP		
1	50000	15000	0		LEV3	ULEV70	LEV	3 C	MPOSITE		*		*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L		OBD S	ST	TATUS	E	ENGINE DISPLACEMENT (L)				
1	7	WC, WR-HO2	5, 1	H025	, TC CA	C, DFI			FULL	T	ALL MODELS	11			
*	* *							F	ARTIAL	T	*		2.3		
*	* *						PAF	RTIAL WITH * FINES							
			VA	POR	ATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	Y.	INFORMATION				
EV	AP / ORV	RFAMILY	E	VAP	ORATIVE	STD CATE	GORY	RY EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES			
	KFMXR01	30NDE		LEV	/ 3 OPTI	ON2 WITH	FEL		PC				HCT		
						MISSION CI	REDIT	[INF	ORMATION						
	REDIT FO	X FLEET AVE OR EXTENDED RRANTY		1		EDIT FOR N ZERO-EVAP	ON-P	PZEV NMOG CREDIT FOR DOP			REDIT FOR DOF	2	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N				N					N		N		
					NMOG	AND FLEET	AVE	RAG	E INFORMA	۸T	TION				
NMO0 RAF	NMOG CH4 RAF NMOG/NMHC RATIO HCHO/NMHC PC+LDT (0-37 (g/mi)				0-375	50 LVW) LDT		(NOX FLEET S1 3751 LVW-8500 R) + MDPV (g/mi						
*	*	1.10			*	0	. 072				0.083		*		

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.



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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).

day of May 2018.

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

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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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

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 diumal+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

		NMOG+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	GASOLINE- TIER3 E10	0.040	0.070	1.4	1.7	*	*	*	4	*	001
50°F @4K	*	*	*	*	*	*	*	+	*		

	EUEL TVDE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	+	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.014	0.070			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			2.2	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

		-		US06		SC03	3	COM	OMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	
@ 4K	*	CERT	*	*	1 - 1	*	*	7.77			
		STD	*	*		*	*				
		CERT	*	. *	*	+	*	0.038	1.2	*	
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.090	4.2	*	
		BIN						0.090			

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test)	@ UL	2D	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
KFMXR0130NDE	GASOLINE- TIER3 E10	0.207	0.300	0.300	0.144	0.300	0.300	0.00	0.05

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

EVAPORATIVE FAMILY				FUEL ONLY EVAP & CANISTER BLEED									
	ORVR (g/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			
KFMXR0130NDE	GASOLINE- TIER3 E10	0.01	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.007	0.020			



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EFFECTIV	E LEAK DIAMETER STAND	ARD AND CERTIFICATION LE	VEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
KFMKR0130NDE	KFMXR0130NDE-001		0.02

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; GWWR: 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

2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	OBD
FORD	MUSTANG	PC	2.3	M6,SA10	KFMXR0130NDE	1	F
FORD	MUSTANG CONVERTIBLE	PC	2.3	M6,SA10	KFMXR0130NDE	1	F
FORD	MUSTANG PERFORMANCE PACKAGE	PC	2.3	M6,SA10	KFMXR0130NDE	1	F