

Executive Order: A-010-2330

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-19-095;

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													
MODE		EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY				FUEL TYPE		
2022	. NI	тмхD07.363н				DEDICATED SINGLE FUEL VEHICLE					GASOLINE			
	USEFU	L LIFE (miles)	•	VEH	IICLE EMISS	ION (CATEC	GORY		INTERIM / IN	TERM	IEDIATE IN-USE STD		
EXH	I/ORVR	EVAP)		FTP		SF	TP		FTP		SFTP		
15	50000	15000	0	LEV3	LEV3 ULEV (F US06, SC03, TEST CYCLE			03, FTP		*		*		
SPE	CIAL F	EATURES & EX	(HAL STE		ON CONTRO	L		OBD	S ⁻	TATUS	EN	GINE DISPLACEMENT (L)		
1		2TWC, 2WE	R-HO2	2S,2HO2S,	SFI			FULL		*				
*			1	*		\neg	P	PARTIAL *			7.3			
*	* *							TIAL WIT FINES	I ALL MODELS					
		E	VAP	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMI	ILY	/ INFORMATIO	1			
EVA	\P / OR\	/R FAMILY	EV	'APORATIVE	STD CATE	GORY	, EVAP EMISSION STD VEHICLE CLASS				SF	PECIAL FEATURES		
1	NFMXR0	250NHJ]	LEV 3 OPT	ON2 WITH	FEL	MDV4			V4	*			
1	NFMXR0:	360NHJ]	LEV 3 OPTION2 WITH FEL MDV4 *			*							
		·			EMISSION CI	REDIT	r INFC	RMATIO	N	·				
	EDIT F	OX FLEET AVE OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG	CI	REDIT FOR DO	- 1	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N					N		N		
				NMOG	AND FLEET	AVE	RAGE	INFORM	ΙA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO	Н	CHO/NMHC RATIO		500 G	600 GVW) MDV (8501		OG+NOX FLEET ST V (8501-10000 GVWI (g/mi)		MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		*		*		0.178			0.247			

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 listed 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 (OBD) system of the vehicles has been determined to have three (3) deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of twenty-five dollars (\$25) per vehicle for the third deficiency 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 2022 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 \$40,725 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 on this 29th day of April 2021.

Allen **∠**yons, Chief

Emissions Certification and Compliance Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (F)	P. HWFET	. 50°F. 20°F)
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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

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	0.176	0.200	3.29	4.2	*	*	*	6	0.001	0.008
50°F @4K	GASOLINE- TIER3 E10	0.100	0.400	1.3	4.2	*	*	1.6	16		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TIPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.103	0.200			
20°F @ 50K	*			*	*	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx	СО	PM	NMOG+NOx	СО	NMOG+NOx	СО	PM
			(g/mi)	(g/mi)	(mg/mi)	(g/mi)	(g/mi)	(g/mi)	(g/mi)	(mg/mi)
@ 4K	4K *	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	*	*	*	0.157	3.0	2
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.800	22.0	10
		BIN						*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			WHOLE \	/EHICLE	EVAPORA	TIVE TESTI	NG		
	FUEL TYPE	PE 3DHS (g/test) @		⊕ UL	2DI	HS (g/test) (@ UL	RL (g/mi) @ UL	
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
NFMXR0250NHJ	GASOLINE- TIER3 E10	0.352	0.600	0.600	0.231	0.600	0.600	0.000	0.05
NFMXR0360NHJ	GASOLINE- TIER3 E10	0.377	0.600	0.600	0.356	0.600	0.600	0.000	0.05



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ORVR / FUI	ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE			IG TEST) @ UL		RIG TEST t) @ UL	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD		
NFMXR0250NHJ	GASOLINE- TIER3 E10	0.040	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.007	0.030		
NFMXR0360NHJ	GASOLINE- TIER3 E10	0.012	0.20	GASOL: TIER3		*	*	*	*	0.010	0.030		
	FFECTIVE	LEAK D	IAMET	ER STA	NDARI	D AND CE	RTIFICA	LION LE	VEL (INCH	IES)			
EVAPORATIVE FAMILY LEAK FAMIL			_Y CERT					STD					
NFMXR0360NHJ NFMXR036			360NНЈ	-001		*				0.02			
NFMXR0250NHJ NE			250NHJ	-001		*	r			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; 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; 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: HP/LP EGR: High/Low Pressure EGR: 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol`("15%"gasoline) fuel; E10: "10%" éthanol ("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

2022 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F250 PICKUP 2WD	MDV4	7.3	SA10	NFMXR0250NHJ	1	\$
FORD	F250 PICKUP 2WD	MDV4	7.3	SA10	NFMXR0360NHJ	1	\$
FORD	F250 PICKUP 4WD	MDV4	7.3	SA10	NFMXR0250NHJ	1	\$
FORD	F250 PICKUP 4WD	MDV4	7.3	SA10	NFMXR0360NHJ	1	\$
FORD	F350 PICKUP 2WD	MDV4	7.3	SA10	NFMXR0250NHJ	1	\$
FORD	F350 PICKUP 2WD	MDV4	7.3	SA10	NFMXR0360NHJ	1	\$
FORD	F350 PICKUP 4WD	MDV4	7.3	SA10	NFMXR0250NHJ	1	\$
FORD	F350 PICKUP 4WD	MDV4	7.3	SA10	NFMXR0360NHJ	1	\$