

Executive Order: A-010-2328

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.

MODEL TEST GROUP VEHICLE CLASS(ES)						TEST GRO	DUP IN	IFORI	MATION					
USEFUL LIFE (miles)			ST GROUP		VEHIC	LE CLASS(E	S)		FUEL C	ATEGORY		FUEL TYPE		
EXH/ORVR	2022	NF	MXD06.27BC			MDV5						85% ETHANOL, GASOLINE		
150000		USEFUL	LIFE (miles)	<u> </u>	VEH	IICLE EMISS	ION C	ATEC	TEGORY INTERIM / INTE			MEDIATE IN-USE STD		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS	EXH	I/ORVR EVAP FTP						SFTP FTP				SFTP		
SYSTEMS	15	0000	150000)	LEV3	ULEV270	(I	HOT14 A92),	35 UC SC03,	*		*		
* PARTIAL * PARTIAL * PARTIAL * PARTIAL * PARTIAL WITH FINES * PARTIAL W	SPE								OBD S	TATUS	E			
* * * * * * * * * * * * * * * * * * *	1		2TWC,2HO2S,2WR-HO2S,SFI						FULL	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY	*			*				P.	ARTIAL	*		6.2		
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY NFMXF0250NDJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0360NHJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0250NHJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0360NHJ LEV 3 OPTION2 WITH FEL MDV5 * EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV ZERO-EVAP N N NMOG AND FLEET AVEARAGE INFORMATION NMOG AND FLEET AVEARAGE INFORMATION NMOG AND FLEET AVEARAGE INFORMATION NMOG CREDIT FOR DOR NMOG AND FLEET AVERAGE INFORMATION NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 RAF RAF RAF RAF RAF RAF RAF RA	*	*								ALL MODELS				
NFMXF0250NDJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXF0360NHJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0250NHJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0360NHJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0360NHJ LEV 3 OPTION2 WITH FEL MDV5 * EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG AND FLEET AVERAGE INFORMATION NMOG AND FLEET STD NMOG+NOX FLEET STD NMOG+NOX FLEET STD NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi) NMOG ASOLINE)			E,	VAPC	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	/ INFORMATIO	4			
NFMXF0360NHJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0250NHJ LEV 3 OPTION2 WITH FEL MDV5 * NFMXR0360NHJ LEV 3 OPTION2 WITH FEL MDV5 * EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR FOR WORK TRUCKS OPTIONAL EXH. STD FOR WORK TRUCKS N N N N N N NMOG AND FLEET AVERAGE INFORMATION NMOG+NOX FLEET STD NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVW) (9/mi) NMOG+NOX FLEET STD MDV (8501-10000 GVWR) (9/mi) NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (9/mi) MDV (10,001-14,000 GVWR) (9/mi)	EVA	P / ORV	R FAMILY	EVA	PORATIVI	STD CATE	GORY	J			S	SPECIAL FEATURES		
NFMXR0250NHJ	N	FMXF02	50NDJ	L	EV 3 OPT	ON2 WITH	FEL	MDV5				*		
NFMXR0360NHJ LEV 3 OPTION2 WITH FEL EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG AND FLEET AVEAUCH NMOG AND FLEET AVEAUCH RAF RAF RAF RAF RAF RAF NMOG/NMHC RATIO (GASOLINE) RATIO (GASOLINE) LEV 3 OPTIONAL WITH FEL MDV5 * MMOV5 * MMOV5 NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR	N	FMXF03	60инј	L	EV 3 OPT	ON2 WITH	FEL	MDV5				*		
EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY N N N N N N N N N N N N N	N	IFMXR02	50инј	L	EV 3 OPT	ON2 WITH	FEL	MDV5				*		
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY N N N N N N N N N N N N N	N	IFMXR03	60инј	L	EV 3 OPT	ON2 WITH	FEL		ME	V5		*		
CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR NMOG WORK TRUCKS N NMOG AND FLEET AVERAGE INFORMATION NMOG-NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi) NMOG-NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)					I	EMISSION C	REDIT	INFC	RMATION					
NMOG AND FLEET AVERAGE INFORMATION NMOG CH4 RAF RATIO (GASOLINE) NMOG+NOX FLEET STD NMOD (g/mi) NMOD (g/mi) NMOG+NOX FLEET STD NMOD (g/mi) NMOG+NOX FLEET STD NMOD (g/mi) NMOD (g/mi		EDIT FO	R EXTENDED					ZEV	NMOG C	REDIT FOR DO	R			
NMOG RAF RAF RAF (GASOLINE) STP			N			N				N		N		
NMOG CH4 RAF RATIO (GASOLINE) (GASOLINE) (GASOLINE) (RATIO (GASOLINE) (GASOLINE) (GASOLINE) (RATIO (GASOLINE) (GASOLINE) (GASOLINE) (GASOLINE) (MOG+NOX FLEET STD (NMOG+NOX FLEET STD (NMO					NMOG	AND FLEET	ΓΑVΕ	RAGE	INFORMA	TION				
* * 1.10 * * 0.178 0.247	NMOG RAF		NMOG/NMHO RATIO	'	RATIO	RATIO LDT (3751 LVW-8				V) MDV (8501-10000 GVWR		R) MDV (10,001-14,000		
	*	*	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 3rd day of May 2021.

Allen Lyons, 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 (FTP, HWFET, 50°F, 20°F)

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	E85-EPA (GASOLINE- TIER3 E10)	0.221 (0.241)	0.270 (0.270)	2.9 (3.5)	4.2 (4.2)	* (*)	* (*)	1 (*)	6 (6)	0.000 (0.002)	0.010 (0.010)	
50°F @4K	E85-EPA	0.221	0.675	0.8	4.2	*	*	3	20			

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TIPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	E85-EPA (GASOLINE-TIER3 E10)	0.170 (0.195)	0.270 (0.270)			
20°F @ 50K	*			*	*	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COMPOSITE		
	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	4K *	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	*	*	*	0.268	2.6	2
@ UL	E85-EPA	STD	*	*	*	*	*	0.550	6.0	7
		BIN						*		
		CERT	*	*	*	*	*	0.243	3.8	1
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.550	6.0	7
		BIN						*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE		WHOLE \	NG	RL (g/mi) @ UL				
		3DHS (g/test) @ UL						2DI	HS (g/test) (
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
NFMXF0250NDJ	GASOLINE- TIER3 E10	0.352	0.600	0.600	0.231	0.600	0.600	0.000	0.05
NFMXF0360NHJ	GASOLINE- TIER3 E10	0.377	0.600	0.600	0.356	0.600	0.600	0.000	0.05
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 / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
			FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g.	ORVR (g/gallon) @ UL			YPE	3DHS R (g/test)			RIG TEST t) @ UL	BLEED CANISTER TEST (g/test) @ 4K		
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD	
NFMXR0250NHJ	E10-EPA	0.040	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.007	0.030	
NFMXF0250NDJ	E10-EPA	*	*	GASOLINE- TIER3 E10		*	*	*	*	0.007	0.030	
NFMXF0360NHJ	E10-EPA	*	*	GASOLI TIER3		*	*	*	*	0.010	0.030	
NFMXR0360NHJ	E10-EPA	0.012	0.20	GASOLI TIER3		*	*	*	*	0.010	0.030	
	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)											
EVAPORATIVE FAMILY LEAK FAMIL			LY	Y CERT				STD				

EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD		
NFMXR0250NHJ	NFMXR0250NHJ-001	*	0.02		
NFMXF0250NDJ	NFMXF0250NDJ-001	*	0.02		
NFMXR0360NHJ	NFMXR0360NHJ-001	*	0.02		
NFMXF0360NHJ	NFMXF0360NHJ-001	*	0.02		
*: not applicable: #: pounde: I	II	oon I DT: light duty trucks I DT1. I DT			

: 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	F350 2WD BED DELETE FFV	MDV5	6.2	SA6	NFMXF0250NDJ	1	\$
FORD	F350 2WD BED DELETE FFV	MDV5	6.2	SA6	NFMXF0360NHJ	1	\$
FORD	F350 4WD BED DELETE FFV	MDV5	6.2	SA6	NFMXF0250NDJ	1	\$
FORD	F350 4WD BED DELETE FFV	MDV5	6.2	SA6	NFMXF0360NHJ	1	\$
FORD	F350 PICKUP 2WD FFV	MDV5	6.2	SA6	NFMXR0250NHJ	1	\$

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MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F350 PICKUP 2WD FFV	MDV5	6.2	SA6	NFMXR0360NHJ	1	\$
FORD	F350 PICKUP 4WD FFV	MDV5	6.2	SA6	NFMXR0250NHJ	1	\$
FORD	F350 PICKUP 4WD FFV	MDV5	6.2	SA6	NFMXR0360NHJ	1	\$