

Executive Order: A-008-0540

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 YEAR		EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2022	NB	MXV03.0B07			PC			DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	INTERIM / I	NTE	RMEDIATE IN-USE STD		
EXH	I/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	150000		LEV3	ULEV125	LEV	3 C	OMPOSITE	*		PM		
SPE	CIAL FE	EATURES & EXI	HAUS TEMS		ON CONTRO	L		OBD S	TATUS		ENGINE DISPLACEMENT (L)		
1	T	WC, WR-HO2S,	но2	S, DFI,	TC, CAC			FULL	*				
*			*				F	PARTIAL	ALL MODELS		3.0		
*	* *						PAF	RTIAL WITH FINES	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	P / ORV	R FAMILY	EVA	PORATIVI	E STD CATE	GORY	EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES		
N	NBMXR01	50G30	LE	V 3 OPT	ION2 WITH	FEL	EL PC				*		
N	NBMXR01	70G12	LE	LEV 3 OPTION2 WITH FEL			PC			*			
		·			EMISSION CI	REDIT	INF	ORMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG C	REDIT FOR DO)R	R OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAG	E INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		IO/NMHC RATIO	NMOG+NO PC+LDT (0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*	0	.051			0.056		*		

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: Vehicles certified under this Executive Order shall not be introduced into commerce before January 2, 2021.

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 23rd day of December 2020.

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)				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	0.023	0.125	0.1	2.1	*	*	*	4	0.000	0.003
50°F @4K	GASOLINE- TIER3 E10	0.030	0.250	0.1	2.1	*	*	*	16		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TIPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.013	0.125			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.5	10.0	

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	*	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	2	*	*	0.027	0.4	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.070	4.2	*
		BIN						0.120		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		WHOLE \						
EVAPORATIVE FAMILY		3DH	S (g/test) (@ UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
NBMXR0150G30	GASOLINE- TIER3 E10	0.195	0.300	0.300	0.226	0.300	0.300	0.01	0.05
NBMXR0170G12	GASOLINE- TIER3 E10	0.145	0.300	0.400	0.115	0.300	0.400	0.01	0.05



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
		FUEL ONLY EVAP & CANISTER BLEED										
EVAPORATIVE FAMILY	LY FUEL TYPE (g/test) @ UL (g/test) @ UL TES	ORVR (g/gallon) @ UL		FUEL TYPE						BLEED CANISTER TEST (g/test) @ 4K		
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD	
NBMXR0150G30	GASOLINE- TIER3 E10	0.04	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.004	0.020	
NBMXR0170G12	GASOLINE- TIER3 E10	0.04	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.010	0.020	
I	EFFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICAT	TION LEV	EL (INCH	IES)		
EVAPORATIVE	FAMILY	LEA	K FAMIL	_Y CERT					STD			
NBMXR0170	G12	NBMXR0	170G12	-001 0.01					0.02			
NBMXR0150	G30	NBMXR0	150G30	-001		0.	00		0.02			

the inot 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%" 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

2022 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
BMW	740I SEDAN	PC	3.0	SA8	NBMXR0170G12	1	P
BMW	7401 XDRIVE SEDAN	PC	3.0	SA8	NBMXR0170G12	1	P
BMW	8401 CONVERTIBLE	PC	3.0	SA8	NBMXR0150G30	1	P
BMW	840I COUPE	PC	3.0	SA8	NBMXR0150G30	1	P
BMW	8401 GRAN COUPE	PC	3.0	SA8	NBMXR0150G30	1	P
BMW	8401 XDRIVE CONVERTIBLE	PC	3.0	SA8	NBMXR0150G30	1	P
BMW	8401 XDRIVE COUPE	PC	3.0	SA8	NBMXR0150G30	1	P
BMW	8401 XDRIVE GRAN COUPE	PC	3.0	SA8	NBMXR0150G30	1	P