

Executive Order: A-008-0523

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: The following vehicles produced by the manufacturer are certified as plug-in hybrid electric vehicles pursuant to Title 13, California Code of Regulations (13 CCR) Sections 1961 or 1961.2, 1962.2, 1976, 1978 and the incorporated test procedures. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL TEST GROUP VEHICLE CLASS(ES) FUEL CATEGORY FUEL TYPE	E STD										
USEFUL LIFE (miles) EXH/ORVR EVAP SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC * * * * * * * * * * * * *											
EXH/ORVR EVAP FTP SFTP FTP SFTP 150000 150000 LEV3 SULEV30 LEV 3 COMPOSITE * PM SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS 1 WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC FULL * PARTIAL * PARTIAL WITH ALL MODELS EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP EMISSION STD											
150000 150000 LEV3 SULEV30 LEV 3 COMPOSITE * PM SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS 1 WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC FULL * PARTIAL * PARTIAL * PARTIAL WITH ALL MODELS EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP EMISSION STD											
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS OBD STATUS ENGINE DISPLACE (L) The state of the state	EMENT										
SYSTEMS OBD STATUS (L) WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC * PARTIAL * PARTIAL WITH FINES EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP FMISSION STD	EMENT										
* PARTIAL * 3.0 * PARTIAL WITH ALL MODELS EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP EMISSION STD											
* * PARTIAL * 3.0 * PARTIAL WITH FINES ALL MODELS EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP EMISSION STD											
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP FMISSION STD											
EVAP EMISSION STD											
EVAR / OR VR EARNING EVARORATIVE CTR CATECORY EVAR EMISSION STD	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION										
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY VEHICLE CLASS SPECIAL FEATU	RES										
MBMXR0170H05 LEV 3 OPTION2 WITH FEL LDT4 *	*										
EMISSION CREDIT INFORMATION											
AVE (REDITEOR NON-P/EV/ERO)	OPTIONAL EXH. STD FOR WORK TRUCKS										
ALL MODELS N N N N	N										
NMOG AND FLEET AVERAGE INFORMATION											
NMOG CH4 RAF	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)										
* * 1.10 * 0.058 0.065 *											

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 2021 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.

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 _______ day of April 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)																			
		FUE		1	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														
						IOG+ (g/mi			CO (g/mi)		NOx (g/mi)		HCI (mg/				PM (g/mi)		
				CER	Т	STD	CER	T S1	ГD	CERT	STE	CERT		STD			STD		
FTP@50K *			*		*		*	*	,	k	*	*	*	*		1	*	*	
FTP@I	TIERS EIU			10	0.01	1	0.030	0.5	1.	. 0	*	*	*	*		0.0	002	0.003	
50°F @	4K	GASC			0.01	5	0.060	0.6	1.	. 0	*	*	*	* 8					
FUEL TYPE								PE		NMOG+N						CO (g/mi)			
1.00/55	-	5016									-	RT	STD		CERT		_	STD	
HWFE.		-			*						-	* *							
HWFE	T @	UL			GASOLINE-TIER3 E10						0.	009	0.030						
20°F	@ 5	0K	CO	LD CC	O E10 REGULAR GASOLINE (TIER3)										1.6			12.5	
SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS																			
					US06							SC03				COMPOSITE			
Fl		JEL TYPE				NMOG+NOx (g/mi)		CO (g/mi)				NMOG+NOx C (g/mi) (g/		NMOG+NO (g/mi)			CO J/mi)	PM (mg/mi)	
@ 4K *		*	CER			*		*	*			k	*						
				STD		*		*				t	*						
@ UL GASOLII		CERT		*		*		4	-	tr .	*		0.012	12 1.0		*			
			E10 STD		*		*	*		*		*	0.077		4	1.2	*		
			10/11	BIN	-	= =									0.050				
			VVH	OLE V	EHICL	EEV				-	-		CERTIFICA	ATIO	N LEVE	LS			
EVAP			F	UEL T	WHOLE VEHICLE EVAPO PE 3DHS (g/test) @ UL					2DHS (g/test) @ UL				RL (g/mi) @ UL					
FAMILY		Y	POELTI					STD			RT STD		FEL		CERT		STD		
MBMXR0170H05		0н05	GASOLTNE-			.167 0.500		0.500	†	112	0.500	0.500		0.00			0.05		
ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS									LS										
FUEL ONLY EVAP & CANISTER BLEED																			
EVAP(ORA		(ORVR	R (g/gallon) @ UL			FUEL	1		HS RIG TEST g/test) @ UL			2DHS RIG (g/test) @				ED CANISTER (g/test) @ 4K	
			FUEL TYP		PE C	ERT	STD			-	RT	STD	CERT		STD	CERT		STD	
MBMXR0170H05			1	SOLIN ER3 E	1 0 07 1 0				*		*	*	*		*	*		*	



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD							
MBMXR0170H05	MBMXR0170H05-001	0.00	0.02							

*: 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; 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

1 - Credits	1 - Cledits, 5 - Cledits for some/select models											
2021 MODEL YEAR: VEHICLE MODELS INFORMATION												
MODEL NUMBER	MAKE	MODEL	1	VEH LASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD			
1	BMW	X5 XDRIVE4	5E 1	LDT4	3.0	SA8	MBMXR0170H05	1	\$			
ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION												
MODEL	PHEV TYPE	UDDS AER	UDDS EAER		US06 AER	HIGHWAY (MILES)		ZEV				
NUMBER		(MILES)	(MIL	ES)	(MILES)	AER	EAER	ALLOWANCE				
1	TZEV	41.07	41.85		*	44.05	44.19	0.72				