

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.

				TEST GR	OUP II	NFC	ORMATION						
MODEL YEAR TEST GROUP				LE CLASS(ES)		FUEL	C	ATEGORY		FUEL TYPE		
MB	MXJ03.0H05			LDT4			1	GASOLINE					
USEFUL LIFE (miles) VEHICLE EMISS						N CATEGORY INTERIM / IN			INTERIM / INT	ERMEDIATE IN-USE STD			
EXH/ORVR EVAP FTP			FTP		;	SFTP	FTP			SFTP			
150000 150000 LEV3 SULEV30 LEV 3 COMPOSITE *			PM										
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						OBD	ST	TATUS	E	NGINE DISPLACEMENT (L)			
WU-TWO	C, TWC, WR-HO	02S, 1	HO2S, D	FI, TC, C	AC		FULL		*				
	And the second sec	*	- Print and the first				PARTIAL	1	*	3.0			
		*				P	ARTIAL WITH FINES	1	ALL MODELS				
	EV	APOR	ATIVE &	REFUELING	G (EVA	P/C	ORVR) FAMIL	Y	INFORMATION				
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURE						PECIAL FEATURES							
BMXR01	70H05	LEV	7 3 OPTI	ON2 WITH	FEL		I	D	т4		*		
			E	EMISSION C	REDI	T IN	FORMATION	1					
GRO	OUP	AV	E. CRED	IT FOR		-PZ	EV ZERO-	N	IMOG CREDIT F DOR	OR	OPTIONAL EXH. STD FOR WORK TRUCKS		
ALL M	ODELS		N				N		N		N		
			NMOG	AND FLEE	TAVE	RA	GE INFORM	AT	ION				
CH4 RAF	FTP NMOG/NMHC RATIO			PC+LDT	(0-375		VW) LD1	r (:	3751 LVW-8500				
*	1.10		*		0.058				0.065		*		
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CREDIT FOR EXTENDED WARRANTY ALL MODELS N CH4 FTP NMOG/NMHC HCH0/NMHC RATIO NMOG+NC	TEST GROUP VEHICLE CLASS(ES) MEMXJ03.0H05 LDT4 ISEFUL LIFE (miles) VEHICLE EMISSION OF FTP 0000 150000 ISEFUL LIFE (miles) VEHICLE EMISSION OF FTP 0000 150000 ILEV3 SULEV30 CIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS WU-TWC, TWC, WR-H02S, H02S, DFI, TC, CAC * EVAPORATIVE & REFUELING (EVA P/ ORVR FAMILY EVAPORATIVE & REFUELING (EVA P/ ORVR FAMILY EVAPORATIVE STD CATEGORY BMXR0170H05 LEV 3 OPTION2 WITH FEL EMISSION CREDIT DWANCE FOR TEST GROUP NMOG+NOX FLEET AVE, CREDIT FOR EXTENDED WARRANTY NMOC TZEV NMOG AND FLEET AVE NMOG ALL MODELS N I CH4 FTP NMOG/NMHC RATIO NMOG+NOX FLE PC+LDT (0-375 (g/mi)	TEST GROUP VEHICLE CLASS(ES) MEMXJ03.0H05 LDT4 ISEFUL LIFE (miles) VEHICLE EMISSION CAT ORVR EVAP FTP I 0000 150000 LEV3 SULEV30 CIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS WU-TWC, TWC, WR-H02S, H02S, DFI, TC, CAC * P/ EVAPORATIVE & REFUELING (EVAP/O P/ EVAPORATIVE & REFUELING (EVAP/O P/ EVAPORATIVE & 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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.)



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 four (4) deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of fifty dollars (\$50) per vehicle for the third and fourth deficiencies 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.

This Executive Order hereby cancels and supersedes Executive Order A-008-0523 dated April 7, 2020.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this 374 day of June 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division



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

	FU	EL TY	PE		0									
				NMOG+N (g/mi)	1000		:0 /mi)		Ox mi)	1	HCHO mg/mi)		PN (g/m	
				CERT	STD	CERT	STD	CERT	STD	CER	T STD	C	RT	STD
FTP@5	OK	*		*	*	*	*	*	*	*	*		*	*
FTP@L		SOLIN R3 E		0.011 0	.030	0.5	1.0	*	*	*	4	0.	002	0.003
50°F @4		COLIN R3 E		0.015 0	.060	0.6	1.0	*	*	*	8			
FUEL TYPE NMOG+N							Ox (g/mi)		co	(g/mi)				
	-			FUE				CEI	RT	STD	CE	RT	S	STD
HWFET	r @ 50K				*			*		*				
HWFE	T@UL			GASOLINE	E-TIE	R3 E10		0.0	09	0.030				
20°F (@ 50K	со	LD CO	E10 REGUI	LAR G	ASOLINE	(TIER3)				1.	6	12.5	
			S	TP EXHAU	ST EM	ISSION S	TANDARDS	AND CE	RTIFIC	ATION LE	EVELS			
					I	US06			SC03		COMP		SITE	
	FUEL T	YPE		NMOG+N	Ox	CO	PM	NMOG	+NOx	CO	NMOG+NO	Dx	CO	PM
				(g/mi)		(g/mi)	(mg/mi)	(g/n	ni)	(g/mi)	(g/mi)	(g/mi)	(mg/mi)
@ 4K	*		CERT	*		*		*		*				

@ 4K	*	CERT		*	*	2		*	*			
		STD	1	*	*			*	*			
		CERT		*	*	4	1	*	*	0.012	1.0	*
@ UL	GASOLINE TIER3 E1	I SIN		*	*		5	*	*	0.077	4.2	*
		BIN								0.050		
	WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS											
	WHOLE VEHICLE EVAPORATIVE TESTING											
1	1											
		FUEL T	YPE	3DHS	6 (g/test) (DUL	2D	HS (g/test)	@ UL	RL	(g/mi) @	UL
		FUEL T	YPE	3DHS CERT	S (g/test) (STD	DUL FEL	2D CERT	HS (g/test) STD	@ UL FEL	RL CERT		UL
FA		FUEL T GASOLI TIER3	NE-									
F4 MBMXE	AMILY R0170H05	GASOLI TIER3	NE- E10	CERT 0.167	STD	FEL 0.500	CERT	STD 0.500	FEL 0.500	CERT		STD 0.05

					FULL		a chillo			
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS R (g/test	IG TEST) @ UL	2DHS R (g/test	and the second se	BLEED CANISTER TEST (g/test) @ 4K	
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD
MBMXR0170H05	GASOLINE- TIER3 E10	0.01	0.20	*	*	*	*	*	*	*

A	CALIFORNIA AIR RESOURCES BOARD
11/1	ATR RESOURCES BUARD

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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							
LDT<6000#GVWR,3751-575 8500#ALVW; MDV: medium- duty passenger vehicle; HDV emission limit; GVWR: gross ULEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; H SCRC/SCR-N or SCRC-NH3 continuous/periodic trap oxidi heated/oxygen sensor; WR-H RDQS: reductant quality sens EGRC: EGR cooler; AIR/AIRI fuel injection; DFI/IFI: direct/ir full/partial/partial with fines or prefix 2: parallel; (2) suffix: se device (ex. DPF-SCRC: SCR ethanol ("15%"gasoline) fuel; -automatic transmission; CV:	0#LVW; LDT3: LDT 6001-850 duty vehicle; MDV4: MDV 850 c heavy-duty vehicle; ECS: em vehicle weight rating; LVW: lo ber ULEV; ZEV: zero-emission IAC: HC adsorbing catalyst; W : selective catalytic reduction- izer; DPF: diesel particulate fill IO2S or AFS: wide range/linea sor; NH3S: ammonia sensor; E E: secondary air injection (belt ndirect fuel injection; TC/SC: tu h-board diagnostic; DOR: direct eries; a hyphen (-) between aft coated DPF); CNG/LNG: corr E10: "10%" ethanol ("90%"gas continuously variable transmission	car; LDT: light-duty truck; LDT1: LDT 0#GVWR,3751-5750#ALVW; LDT4: 1-10000#GVWR; MDV5: MDV 1000 ission control system; CERT: certifica aded vehicle weight; ALVW: adjusted vehicle; TZEV: transitional ZEV; TW /U: warm-up catalyst; NAC: NOx ads urea/ammonia; NH3OC: ammonia ox ter (active); GPF: PM filter for spark-ia ar/heated air-fuel ratio sensor; NOXS EGR: exhaust gas recirculation; HP/L driven)/(electric driven); PAIR: pulse urbo/super charger; CAC: charge air ct ozone reducing; HCT: hydrocarbon er treatment ECS indicates multiple fin pressed/liquefied natural gas; LPG: soline) fuel; A: automatic (with lockup ssion; SCV: selectable continuously v selectable transmission; OT: other transmissio	LDT 6001-8500#GVWR,5751- 1-4000#GVWR; MDPV: medium- ation; STD: standard; FEL: family LVW; LEV: low emission vehicle; C/OC: 3-way/oxidizing catalyst; orption catalyst; SCR-U or sidation catalyst; CTOX/PTOX: gnited engine; HO2S/O2S: NOx sensor; PMS: PM sensor; P EGR: High/Low Pressure EGR; d AIR; SFI/MFI: sequential/multiport cooler; FFH: fuel fired heater; F/P/\$: trap; BCAN: bleed carbon canister; unctionalities of the after treatment liquefied petroleum gas; E85: "85%" o); M: manual transmission; SA: semi variable transmission; AM:							

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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MODEL NUMBER	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
1	BMW	X5 XDRIVE45E	LDT4	3.0	SA8	MBMXR0170H05	1	\$

ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION

MODEL	PHEV TYPE	UDDS AER	UDDS EAER	US06 AER	HIGHW	ZEV	
NUMBER	PHEVITPE	(MILES)	(MILES)	(MILES)	AER	EAER	ALLOWANCE
1	TZEV	41.07	41.85	*	44.05	44.19	0.72