

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 GRO	DUP IN	IFOR	MATION					
MODEI YEAR		TEST GROUP VEHICLE CLASS(		VEHICLE CLASS(ES)				FUEL C	CATEGORY	FUEL TYPE			
2020	LB	MXJ04.4SM5		L	DT4, PC				SINGLE FUEL HICLE	GASOLINE			
ι	JSEFUL	LIFE (miles)	and other sectors and	VEH	VEHICLE EMISSION CATE				INTERIM / IN	TEF	ERMEDIATE IN-USE STD		
EXH	ORVR	EVAP			FTP		SF	SFTP FTP			SFTP		
15	0000	15000	D	LEV3	ULEV125	LEV	3 CC	OMPOSITE	*		PM		
SPE	CIAL FE	ATURES & EX	(HAUS		ON CONTRO			OBD STATUS			ENGINE DISPLACEMENT		
1	2WU-TW	C, 2TWC, 20	R-HO2 2CA		5, DFI, 2T	с,		FULL	*				
*	* * PART								* 4.4				
*	* *						PAR	TIAL WITH	ALL MODELS				
		E	VAPO	RATIVE &	REFUELING	G (EVA	P/OR	VR) FAMIL	Y INFORMATIO	V			
EVA	P / ORVI	R FAMILY	EVA	PORATIVE	STD CATE	GORY			ISSION STD E CLASS		SPECIAL FEATURES		
L	BMXR01	50G1X	LI	EV 3 OPTI	ION2 WITH	FEL		Ч.,	PC		*		
L	BMXR01	80G05	LI	EV 3 OPTI	ION2 WITH	FEL		L	DT4		*		
<u>e e terre contane 5120</u>		an a		E	EMISSION C	REDIT	INFO	ORMATION			an a		
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY					IMOG CREDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
N					N			92. 1	N		N		
	a second a chair high is crime do			NMOG	AND FLEE	T AVE	RAG	E INFORMA	TION				
NMOG RAF	RAE RAE NMOG/NMHC RATIO PC+LDI (0						V) LDT	NMOG+NOX FLEET S LDT (3751 LVW-850 GVWR) + MDPV (g/m		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		*	C	0.065			0.074		*		
Coo the	Attack	waamt fan \/ak	iolo N	ladala Eur	porativo Ec	amily	Engi	na Dianlaa	omont Emissis	nC	Control Systems Phase-		

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 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 seventy-five dollars (\$75) 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 California 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 2020 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 supersedes Executive Order A-008-0505 dated August 20, 2019.

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

Executed at El Monte, California on this 2477 day of September 2019.

Allen Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

BAYERISCHE MOTOREN WERKE AG Executive Order: A-008-0505-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

## 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

			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	P@50K *		*	*	*	*	*	*	*	*	*	*		
FTP@UL	GASOLINE- TIER3 E10		0.052	0.125	0.1	2.1	*	*	*	4	0.002	0.003		
50°F @4K	GASOLINE- TIER3 E10		0.038	0.250	0.1	2.1	*	*	* *					
					10000 anno 2000 a 120000		NA	NMOG+NOx (g/mi)			CO (g/mi)			
				FUEL TYP	E		CE	RT	STD	CER	Т	STD		
HWFET @ 50K				*			*		*					
HWFET @ UL			GASOI	LINE-TIEN	R3 E10		0.0	19	0.125					
20°F @ 50K		COLD (	CO E10 RE	EGULAR GA	ASOLINE	(TIER3)				0.7	1	10.0		
			SFTP EXH	AUST EM	ISSION ST	TANDARD	S AND CE	RTIFICA	TION LEVE	LS	even and a second s	-		

			21	-IPE	AHAUSI	EMISSION	1 21 AND	ARDS A	AND	LEKTIFIC	ATION L	EVEL	3			-
a de de la					US06				SC03			COMPOSITE				
	FUEL TYI	PE			DG+NOx g/mi)	CO (g/mi)		rM J/mi)		)G+NOx g/mi)	CO (g/mi)	1	OG+NOx g/mi)	CO (g/m		PM (mg/mi)
@ 4K	@ 4K *		CERT		*	*				* *						
			STD		*	*				*	*					
					*	*	* 2		*		*	C	0.047		3	*
@ UL	GASOLINE- TIER3 E10		STD		*	*		6		*	*	с.	0.083		2	*
			BIN									C	.120			
		WH	OLE VE	HICL	E EVAPO	ORATIVE E	MISSION	STAN	DAR	DS AND C	ERTIFIC	ATIO	N LEVELS			
						WHOLE	VEHICLE	EVAPO	ORAT	IVE TEST	ING					
		F	FUEL TYPE		3DHS (g/test) @ UL			2DHS (g/test) @ UL					RL (g/mi) @ UL			IL ·
	A 10 UDOURSERSED IN				CERT	STD	FEL	CER	RT	STD	FEI	FEL CEF		CERT S		TD
LBMXR0150G1X1			ASOLIN IER3 E	10 3191		0.300	0.400	0.34	15	0.300	0.40	0.400			0.05	
T.BMXR0180C05			GASOLINE- FIER3 E10		0.440	0.500	0.500	0.30	02	0.500	0.50	0.01			0.05	

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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS FUEL ONLY EVAP & CANISTER BLEED													
				FUEL ONLY EVAP & CANISTER BLEED 3DHS RIG TEST 2DHS RIG TEST BLEED CANISTER									
EVAPORATIVE	ORVR	FUEL TYPE		3DHS RI (g/test)			est) @ UL		est) @ 4K				
FAMILI	FUEL TYP	E CERT	CERT STD		FUELTIFE		STD	CER		CERT	STD		
LBMXR0150G1X	GASOLINE TIER3 E1	1 () () 4	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.004	0.020		
LBMXR0180G05	TIER3 EI0		0.20	GASOLINE- TIER3 E10		*	*	*	*	0.005	0.020		
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)													
EVAPORATIVE	K FAMIL	Y		CERT			STD						
LBMXR0150G1X LBMXR0150G12			150G1X	-001		0.0	01	0.02					
LBMXR0180	S 1091000 1090	LBMXRO							0.02				
*: not applicable; # LDT<6000#GVWf 8500#ALVW; MD <sup>V</sup> duty passenger ve emission limit; GV ULEV: ultra LEV; ADSTWC: adsorb SCRC/SCR-N or 3 continuous/period heated/oxygen se RDQS: reductant EGRC: EGR cool fuel injection; DFL full/partial/partial prefix 2: parallel; device (ex. DPF-S ethanol ("15%"ga	R,3751-5750 /: medium-ophicle; HDV: wR: gross ' SULEV: sup- ing TWC; H SCRC-NH3 ic trap oxidi nsor; WR-H quality sens- er; AIR/AIRI vith fines or 2) suffix: ses- SCRC: SCR soline) fuel:	D#LVW; LD duty vehicle heavy-duty vehicle weig ver ULEV; Z AC: HC ads selective c zer; DPF: di O2S or AF: cor; NH3S: a E: secondar direct fuel i -board diag ries; a hypf coated DPI E10: "10%"	F3: LD1 ; MDV4: vehicle pht rating EV: zerc sorbing c atalytic r astalytic r a	6001-850 MDV 850 ; ECS: em g; LVW: lo -emissior atalyst; W eduction- ticulate fil ange/linea a sensor; l ction (bel' TC/SC: t DOR: direc stween aff /LNG: cor ("90%"ga	10#GVW 01-1000 hission ( aded von vehicl VU: war urea/an ter (acti ar/heate EGR: e: t driven urbo/su ct driven urbo/su ct ozon- ter treat npresse isoline)	(R,3751-57, 0#GVWR; N control syste ahicle weigh e; TZEV: tra m-up cataly nmonia; NH ive); GPF: F ad air-fuel ra xhaust gas )/(electric du per charger e reducing; ment ECS i ad/liquefied fuel; A: auto	50#ALVW; MDV5: MD em; CERT: ansitional Z st; ALVW: a st; NAC: N 3OC: amm M filter for titio sensor; recirculatio riven); PAII ; CAC: cha HCT: hydro ndicates m natural gas pomatic (with	V 10001 certifica adjusted EV; TW Ox adso spark-iq ; NOXS: n; HP/L R: pulse arge air ocarbon nultiple f s; LPG: h lockup	I-14000#GVW ation; STD: sta I LVW; LEV: lo C/OC: 3-way/ orption catalys idation catalys gnited engine; NOx sensor; P EGR: High// d AIR; SFI/MF cooler; FFH: fr trap; BCAN: I unctionalities liguefied petro	(R; MDPV: andard; FEI ow emission oxidizing ca st; SCR-U o st; CTOX/P HO2S/O2S PMS: PM s ow Pressu FI: sequenti uel fired hea bleed carbo of the after deum gas; f transmissio	medium- _: family h vehicle; atalyst; or TOX: S: sensor; tre EGR; al/multiport ater; F/P/\$: on canister; treatment E85: "85%" n; 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

# 2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
BMW	M5	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	M5 COMPETITION	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	M8 COMPETITION CONVERTIBLE	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	M8 COMPETITION COUPE	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	M8 COMPETITION GRAN COUPE	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	M8 CONVERTIBLE	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	M8 COUPE	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	M8 GRAN COUPE	PC	4.4	SA8	LBMXR0150G1X	1	\$
BMW	X5 M	LDT4	4.4	SA8	LBMXR0180G05	1	\$
BMW	X5 M COMPETITION	LDT4	4.4	SA8	LBMXR0180G05	1	\$
BMW	X6 M	LDT4	4.4	SA8	LBMXR0180G05	1	\$
BMW	X6 M COMPETITION	LDT4	4.4	SA8	LBMXR0180G05	1	\$