

BAYERISCHE MOTOREN WERKE AG

Executive Order: A-008-0500

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 1 of 4

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-14-012;

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.

			8		TEST GR	OUP I	NF	ORMATION					Bright Strain			
MODE YEAR		EST GROUP		VEHIC	LE CLASS((ES)		FUEL	L CATEGORY				FUEL TYPE			
2020	LB	MXV03.0H58			PC					N HYBRID C VEHICLE	GASOLINE					
	USEFUL	. LIFE (miles)		VEH	IICLE EMIS	SION	CA	TEGORY	П	INTERIM / IN	TE	RMI	MEDIATE IN-USE STD			
EXH/ORVR EVAP					FTP			SFTP		FTP		SFTP				
15	0000	150000		LEV3	ULEV125	LEV	3	COMPOSITE	E PM			PM				
SPECIAL FEATURES & EXHAUST EMISSION CONTI SYSTEMS						OL		OBD	OBD STATUS				ENGINE DISPLACEMENT (L)			
1	T	WC, WR-HO2S,	HO2S	, DFI,	TC, CAC		r	FULL		*	1					
*	*							PARTIAL		ALL MODELS	1		3.0			
*	*							ARTIAL WIT	Н	*	-					
		EV	APOR	ATIVE &	REFUELIN	G (EVA	\P/	ORVR) FAM	ILY	INFORMATION	ı					
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY								AP EMISSION STD /EHICLE CLASS			SPECIAL FEATURES					
LBMXR0140G3H LEV 3 OP					ON2 WITH	FEL			P	С			*			
				- 1	EMISSION (CREDI	T IN	NFORMATIO	N	-						
ALLOWANCE FOR TEST GROUP TZEV NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRAN							-PZ	REDIT FOR ZEV ZERO- VAP	NMOG CREDIT FOR				OPTIONAL EXH. STD FOR WORK TRUCKS			
* N								N		N		N				
				NMOG	AND FLEE	T AVE	R/	AGE INFORM	IAT	TION						
NMOG RAF	CH4 RAF RAFIO RATIO RATIO RHCHO/NMHC RATIO RHCHO/NMHC RATIO RHCHO/NMHC RATIO RHCHO/NMHC RATIO RHCHO/NMHC RATIO RHCHO/NMHC RHCHO/NMHC RHCHO/NMHC RATIO RHCHO/NMHC RHCH			(0-375		.VW) LD) T	+NOX FLEET STD (3751 LVW-8500 R) + MDPV (g/mi)			NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)					
*	*	1.10		*	d	0.065	0.074 *					*				
C 41-	- A 44 I		1	1 1 F			_	i Disala				<u> </u>	trol 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.)



BAYERISCHE MOTOREN WERKE AG

Executive Order: A-008-0500

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 2 of 4

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).

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 10th day of April 2019.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

mus for AGH



BAYERISCHE MOTOREN WERKE AG

Executive Order: A-008-0500

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 3 of 4

ATTACHMENT

		/ 	107			· · · · · · · · · · · · · · · · · · ·			201011										
	E											RDS AND		_			ELS	i -	
		FUEL TYPE			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											vity oss:			
					N		MOG+N (g/mi			CO (g/mi)			NOx g/mi)		HCH mg/n	a 10 min		PM (g/mi)	
					CEI	RT	STD	CER	T ST	D	CERT	STD	CER	Т	STD	CER	Т	STD	
FTP@5	0K		*	-	*		*	*	*		*	*	*		*	*		*	
FTP@l	JL	GASO TIER	3 E	10	0.0	45	0.125	0.3	2.	1	*	*	*		4	0.001		0.003	
50°F @	<i>1</i> <i>1</i> <i>1</i>	GASO TIER			0.0	84	250	0.4	2.	1	*	*	*		16	16 y 1928 25 a 25 a 2	gajvega (153 k) (3		
12-14-1						FU	EL TYF	PE				MOG+NC			-	CO (g	/mi)		
											C	ERT	STD		CERT		T STD		
HWFE	Г@5	OK					*			-		*	*		in the state of the party		0.44%	rjali, si akasaban	
HWFE	T @ !	UL			G.	ASOLIN	E-TIE	R3 E10			0	.010	0.125	Ŕ	100		1.75	gradien Alba	
20°F	@ 50	ĸ	СО	LD C) E1	0 REGU	JLAR G	ASOLIN	E (TIEF	R3)	76.1	W.	100 Milesus		0.	7		10.0	
				5	SFTP	EXHA	JST EN	IISSION	STAND	ARDS	AND (CERTIFIC	ATION LE	VEL	S		_		
40/394	90 - 2				16			US06	S06 SC03					MPOSITE					
1313 1483	FUEL TY		PE		N	NMOG+NOx (g/mi)		CO (g/mi)			-	G+NOx g/mi)	CO (g/mi)		MOG+NOx (g/mi)		O mi)	PM (mg/mi)	
@ 4K		*	* CERT STD		T *		*	· 持续的		*		*			1 19		· 特別的		
						*		*				*	*	Sangara - Vig		rei desertation Vi		er Lei en	
		SOT THE-		CERT *		*	* 2			*	*	0	0.029		7	*			
@ UL				STD		*		*		6		*	*	0.083		4.2		*	
				BIN	100		1.12				114			0	.120	14.5			
			WH	OLE V	/EHIC	CLE EV						DS AND C		ATIO	N LEVE	LS			
EVAP			/E FUEL TYPE		WHOLE VEHICLE EVAN					EVAP		IVE TEST			RL (g/mi) @ UL				
FA	MILY				,,,		STD			RT	STD	FEL	L CEI		RT	RT S			
LBMXR	0140	G3H		ASOLI IER3		0.2	64 0	.300	0.300	0.2	252	0.300	0.30	0	0.0	01			
C	RVR	/ FUI	EL C	NLY	CAN	NISTER	BLEE	EVAP	ORATIVE	EMIS	SSION	STANDA	RDS AND	CER	TIFICA	TION L	EVE	LS	
EVAP	ORAT	ΓIVF		ORVR						UEL ONLY EVAP & CANISTI DHS RIG TEST 2DHS RIG									
	MILY		L.		, a, a,			FUE	FUEL TYPE			g/test) @ UL		(g/test) @				st) @ 4K	
			_	EL TY		CERT	STD			CE	RT	STD	CERT	- ;	STD	CER		STD	
LBMXR	0140	G3H		SOLIN ER3 E		0.02	0.20		*		*	*	*		*	*		*	



BAYÉRISCHE MOTOREN WERKE AG

Executive Order: A-008-0500 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)								
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD					
LBMXR0140G3H	LBMXR0140G3H-001	0.01	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; 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; 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

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MODEL NUMBER	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
1	BMW	745E XDRIVE	PC	3.0	SA8	LBMXR0140G12	1	P

ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION

MODEL		UDDS AER	UDDS EAER	US06 AER	HIGHW	ZEV	
NUMBER	PHEV TYPE	(MILES)	(MILES)	(MILES)	AER	EAER	ALLOWANCE
1	*	22.30	22.60	*	24.28	24.53	0.00