California Environmental Protection Agency

⊘ Air Resources Board

BAYERISCHE MOTOREN WERKE AG Executive Order: A-008-0450

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

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Pursuant to the authority vested in the 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 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	OUP IN	FORMAT	ION						
MODE		EST GI	ROUP	VEH	ICLE CLASS(E	E CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2018	ЈВ	MXV02	.онзо		PC		PLUG-IN HYBRID ELECTRIC VEHICLE			GASOLINE				
ı	JSEFUL	LIFE	(miles)	V	EHICLE EMISS	SION C	ATEGOR	Y	INT	ERIM / INT	ERMEDIA	TE IN-USE STD		
EXH/ORVR EVAP					FTP			SFTP		FTP		SFTP		
15	0000		150000	LEV	3 SULEV30	LEV	LEV 3 COMPOSIT		PM			PM		
SPE	CIAL FE	ATUR		IAUST EMIS	SION CONTRO	L		OBD ST	TATU	s	ENGINE	DISPLACEMENT (L)		
1	WU-TW	C, WR-HC	2S, HO2S,	DFI, TC, C	AC	FULL		*						
*	*							PARTIAL		MODELS	2.0			
*				*			PARTIAL WITH * FINES			*				
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INFO	ORMATION				
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO						GORY	RY EVAP EMISS				SPECIA	SPECIAL FEATURES		
JBMXR0140G3H LEV 3 OPTION2						ON2 WITH FEL PC					*			
	,				EMISSION C	REDIT	INFORM	ATION						
	A	LLOW	ANCE FO	R TEST GR	OUP	_	NMOG CR			NMOG CR		OPTIONAL EXH STD FOR WORK		
BASELINE PZEV AT PZEV					TZEV	TZEV			N-PZEV ZERO-EVAP		R	TRUCKS		
* * ALL						3	N			N		N		
				NM	OG AND FLEE	TAVE	RAGE IN	FORMA	TION					
NMOG RAF	NMOG/NMHC I			HCHO/NMH RATIO	BCTI DT (0-			LDT	NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)			
*	*		1.10	*		0.079			0.092			*		

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.

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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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan 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:

For evaporative family JBMXR0140G3H, the manufacturer has attested to compliance with the 0.02 inch effective leak diameter standard in 13 CCR Section 1976(b)(1)(G)6 ["Effective Leak Diameter Standard And Procedure"].

day of April 2017

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

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

BAYERISCHE MOTOREN WERKE AG

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ATTACHMENT

		-					-	-	-			CERTI	-	-	-		
	FUEI		CH4 mor adju OR'	4: methanoxide; I ustment VR [g H	ne; NI NOx: o factor; C/gallo	MOG: xides 2DH	: non-C s of nitr IS/3DH spense	CH4 orga rogen; H0 IS [g HC/ d]: on-bo	nic gas; H CHO: form test]: 2/3 (ard refuel	IC: hy laldeh days d ing va	drocarb lyde; PM diurnal+ por rec	FTP, HWF ion; NMH0 M: particul hot-soak; overy; g: g re; SFTP:	C: non-C ate matt RL [g H gram; m	H4 H0 ter; RA C/mi]: g: milli	C; CO: car F: reactiv running lo gram; mi:	ity oss;	
				NMOG+NOx (g/mi)			CO (g/mi)			NO:			HCHO ng/mi)		PM (g/mi)		
			C	ERT	STD		CERT	STE	CER	T	STD	CERT	SI	D	CERT	STD	
TP@50	K	*		*	*		*	*	*		*	*	*		*	*	
FTP@U	1 1	CLINI R3 E	1 ()	.019	0.03	0	0.4	1.0	*		*	*	4		0.002	0.003	
50°F @4		CLINI R3 E:		.028	0.06	0	0.4	1.0	*		*	*	8				
				-	uel T	VDE		-		NMO	OG+NO	x (g/mi)		(CO (g/mi)		
	127			FUEL TYPE						CER	CERT S) CE			STD	
HWFET	@ 50K			*						*		*					
HWFET @ UL			GASOLINE-TIER3 E10						0.00	.007 0.030					1,1		
20°F @ 50K COLD			LD CO I	CO E10 REGULAR GASOLINE (TIER3)					3)					0.4		10.0	
			SFT	TP EXH	AUST	EMIS	SION	STANDA	RDS AN	D CEI	RTIFICA	ATION LE	VELS				
					US06					SC03			COMPOSITE				
	FUEL TY	UEL TYPE		NMOG+NOx (g/mi)		1	CO PN (g/mi) (mg/					CO (g/mi)	NMOG+NOx (g/mi)		CO (g/mi)	PM (mg/mi	
@ 4K	*.		CERT	*			•		50	*		*	Z.				
				*			*			*		*					
		EASOLINE- SIER3 E10 BI		*			* 2			*		*	0.014		0.8	*	
@ UL				*			*	1	0	*		*	0.097		4.2	*	
				N S S S S S S S S S S S S S S S S S S S					1- 1				0.0	50			
		WH	OLE VE	HICLE E	VAPO							ERTIFICA	TION L	EVEL	S		
EVAPORATIVE			UEL TYP	TYPE 3DHS (g/test) @ UL						PORATIVE TESTING 2DHS (g/test) @ UL				RL (g/mi) @ UL			
FAMILY		OEL ITE										CERT			070		
JBMXR0140G3H			ASOLINE	VE- 0 264 0			300 0.300		0.252			0.30	.300 0			0.05	
-	RVP / FI				RRIF	ED F	FVAPO	RATIVE	FMISSIC	N ST	ANDA	RDS AND	CERTII	FICAT	ION LEVE	ELS	
	7.010710	T	DILLITO	ANIOTE	TO DEL		- VAI	71011112				& CANIS			ON ELVI		
EVAPORATIVE FAMILY			ORVR (g	/galion)	galion) @ UL		FUEL TYPE		3DHS	BDHS RIG TEST (g/test) @ UL		2DHS I	RIG TES	T E		EED CANISTER ST (g/test) @ 4K	
		FU	EL TYPE	PE CERT STD		D			CERT			CERT			CERT	STD	
JBMXR0140G3H		GA	SOLINE- ER3 E10	- 00		20		*	*		*	*	*		*	.*	

*: 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; ŽEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; 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: semiautomatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission: AMS: automated manual-selectable transmission: OT: other transmission

2018 MODEL YEAR: VEHICLE MODELS INFORMATION											
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD	PZEV TYPE			
BMW	530E	PC	2.0	SA8	JBMXR0140G3H	1	P	TZEV			
BMW	530E XDRIVE	PC	2.0	SA8	JBMXR0140G3H	1	P	TZEV			