# California Environmental Protection Agency

# **⊘** Air Resources Board

BAYERISCHE MOTOREN WERKE AG Executive Order: A-008-0436

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 GR	OUP IN	FORMAT	ION				
MODE		EST G	ROUP	VEHI	CLE CLASS(E	ES)		FUEL CATEGORY			IEL TYPE	
2017	HE	MXV03	.0B2X		PC		DED:	ICATED S VEHI	INGLE FUEL	G	ASOLINE	
ī	USEFUL	LIFE	(miles)	VE	HICLE EMISS	SION C	ATEGOR	Y	INTERIM / INT	ERMEDIA	TE IN-USE STD	
EXH	/ORVR		EVAP		FTP		SFTP		FTP		SFTP	
15	0000		150000	LEV	3 ULEV125	LEV	3 СОМРО	SITE	PM		PM	
SPE	CIAL FE	ATUR		IAUST EMISS	SION CONTRO	DL		OBD STA	TUS	ENGINE	DISPLACEMENT (L)	
1	T	WC, W	R-HO2S,	HO2S, DFI,	TC, CAC		FUL	L	ALL MODELS			
*				*			PART	IAL	*		3.0	
*				*		7	PARTIAI FINI		*			
			EV	APORATIVE	& REFUELING	G (EVAI	P/ORVR)	FAMILY I	NFORMATION			
EVA	P / ORV	R FAN	MILY	EVAPORATI	VE STD CATE	GORY		AP EMISS		SPECIA	L FEATURES	
н	BMXR0	L30F32	2	LEV 3 OP	TION2 WITH	FEL		PC		HCT		
. н	IBMXR01	L30N54	1		LEV 2			PC		HCT		
					EMISSION C	REDIT	INFORM	ATION		*		
	A	LLOW	ANCE FO	R TEST GRO	UP			EDIT FOR			OPTIONAL EXH STD FOR WORK	
BASE	ELINE P	ZEV	AT	PZEV	TZEV	NO	N-PZEV 2	ZERO-EV	AP DO	R	TRUCKS	
	*		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*	*		N N				N	
				NMC	G AND FLEE	TAVE	RAGE IN	FORMATI	NC			
MOG RAF	MOG CH4 NMOG/NMHC HCHO/NMHC			PC+LDT	OT (0-3750 LVW)		NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi		MDV (10001-14000			
*	*		1.10	*		0.086			0.101		*	

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.

#### 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.

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#### 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).

day of July 2016.

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 \_\_

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Annette Hebert, Chief

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division age 2 or 4

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## **ATTACHMENT**

### EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

<b>EXHAUST EMISSION STANDARDS</b>	AND CEPTIFICATION I EVELS	ETD	HWEET	50°F 20	OFI
EXHAUS I EIVISSION STANDARDS	AND CERTIFICATION LEVELS	FIF	, HAALE!	30 F, 20	Г)

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**

1. 1 St. 3 t. 3 6.4		1									
		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	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	TIER3 E10 REGULAR GASOLINE	0.038	0.125	0.1	2.1	*	*	*	4	0.001	0.003
50°F @4K	TIER3 E10 REGULAR GASOLINE	0.048	0.250	0.2	2.1	*	*	*	16		

NAME OF THE OWNER.	FUEL TYPE	NMOG+I	NOx (g/mi)	CO (	g/mi)
	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	,*		A.W
HWFET @ UL	TIER3 E10 REGULAR GASOLINE	0.005	0.125		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.5	10.0

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

70 4 A		and the second		US06		SC03	3	CON	POSITE	
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
@ 41.C		STD	*	*		*	*		SEST.	DE NU
		CERT	*	*	6	*	*	0.049	0.2	*
@ UL	TIER3 E10 REGULAR GASOLINE	STD	*	*	10	*	*	0.103	4.2	*
		BIN				8. The No. of the No.		0.120	5	

#### WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE	VEHICLE	EVAPORA	TIVE TESTII	NG		
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test)	@ UL	2D	HS (g/test) (	D UL	RL (g/n	ni) @ UL
.,,,,,,,		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HBMXR0130F3X	TIER3 E10 REGULAR GASOLINE	0.252	0.300	0.300	0.166	0.300	0.300	0.01	0.05
HBMXR0130N54	GASOLINE - TIER 2 UNLEADED	0.31	0.50	*	*	0.65	*	0.01	0.05

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ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS		
				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
HBMXR0130F3X	TIER3 E10 REGULAR GASOLINE	0.14	0.20	TIER3 E10 REGULAR GASOLINE	*	*	*	*	0.003	0.020		
HBMXR0130N54	GASOLINE - TIER 2 UNLEADED	0.01	0.20	*	*	*	*	*	*	*		

': 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; ZEV: 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; 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

### 2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
BMW	M240I CONVERTIBLE	PC	3.0	M6,SA8	HBMXR0130N54	1	F	*
BMW	M240I COUPE	PC	3.0	M6,SA8	HBMXR0130F3X	1	F	*
BMW	M2401 XDRIVE CONVERTIBLE	PC	3.0	SA8	HBMXR0130N54	1	F	*
BMW	M2401 XDRIVE COUPE	PC	3.0	SA8	HBMXR0130F3X	1	F	*