California Environmental Protection Agency	BAYERISCHE	Executive Order: A-008-0420 New Passenger Cars, Light-Duty Trucks and
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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	TION					
MODE		EST G	ROUP	VE	ICLE CLASS	ES)	FUEL CATEGORY			RY	FUEL TYPE		
2017	HE	MXV04	.4563		PC		DED		SINGLE	FUEL	GASOLINE		
	JSEFUL	LIFE	(miles)		EHICLE EMIS	SION C	ATEGOR	Y	INTER	RIM / INTI	RMEDIA	TE IN-USE STD	
EXH	ORVR		EVAP	2	FTP		SFTP	SFTP FTP		FTP		SFTP	
12	0000		150000		LEV2 LEV	L	EV 2 SF STANDAR			*		*	
SPE	CIAL FE	ATUR		AUST EMIS	SION CONTR	OL		OBD ST	TATUS		ENGINE	DISPLACEMENT (L)	
1	2TWC, 2WR-HO2S, 2HO2S, DFI, 2TC, 2CAC				с	FUI	LL	ALL M	ODELS				
*			i	*			PART	TIAL	* 4.4			4.4	
*				*			PARTIA			*			
			EV	APORATIVE	& REFUELIN	G (EVA	P/ORVR)	FAMILY	INFOR	MATION			
EVA	P/ORV	R FAN	NILY	EVAPORAT	IVE STD CAT	EGORY			SSION S		SPECIA	L FEATURES	
Н	BMXR01	30563	3	A Real and the second sec	LEV 2			P	C			HCT	
					EMISSION	CREDIT	INFORM	ATION					
	A	LLOW	ANCE FO	R TEST GR	OUP		MOG CR				DIT FOR	OPTIONAL EXH	
BASE	LINE P	ZEV	AT	PZEV	TZEV	NC	N-PZEV	ZERO-E	VAP	DO	ĸ	TRUCKS	
	*			*	*		1	N		N		N	
				NM	OG AND FLEE	T AVE	RAGE IN	FORMAT	TION				
NMOG RAF	CH4 RAF	NMO	FTP G/NMHC ATIO	HCHO/NMI RATIO	PC+LDT		LEET STD NMOG+NOX FLEI 750 LVW) LDT (3751 LVW GVWR) + MDPV		W-8500	MDV	NOX FLEET STD (10001-14000 /WR) (g/mi)		
*	*	:	1.04	*		0.086			0.10	1		*	

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.

## 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],

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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 \_\_\_\_\_ day of March 2016.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

**California Environmental Protection Agency** 

**O** Air Resources Board

GASOLINE -

TIER 2

UNLEADED

0.28

0.50

+

0.65

\*

HBMXR0130S63

FUEL TYPE

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0.02

0.05

## 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

and the second													
			NMOG (g/mi)		CO (g/mi)			NOx (g/mi)		HO /mi)		PM (g/mi)	
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K	TI	LINE - ER 2 EADED	0.021	0.075	0.6	3.4	0.03	0.05	*	15	*	*	
FTP@UL	TI	LINE - ER 2 EADED	0.021	0.090	0.6	4.2	0.03	0.07	*	18	*	0.01	
50°F @4K	TI	LINE - ER 2 EADED	0.034	0.150	0.7	3.4	0.02	0.05	*	30			
fig-territer					-			NOx (g/	mi)		CO (g/m	i)	
African Contractor				FUEL TYP	E		CE	RT	STD	CER	T	STD	
HWFET @	50K	(	GASOLINE	- TIER 2	2 UNLEADED		0.	01	0.07				
HWFET @	UL	(	GASOLINE	- TIER	2 UNLEAD	ED	0.	01	0.09	Contraction of the			
20°F @	50K	GI	ASOLINE-C	COLD CO H	HIGH OCT	ANE			ener de la service çun d'époistant	1.5	5	10.0	

SFTP EXHAUST EMISSION STANDA	RDS AND CERTIFICATION LEVELS
------------------------------	------------------------------

				US06			SC03	1	CON	POSITE		
	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/m		IHC+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	
@ 4K	GASOLINE TIER 2 UNLEADED	CERT	0.06	1.0			0.05	0.4				
6		STD	0.14	8.0		3	0.20	2.7	147 - E.S.			
		CERT	*	*	*		*	*	0.060	*	*	
@ UL	GASOLINE TIER 2 UNLEADED	STD	*	*	*	*	* *	0.103	*	*		
		BIN		S. A.		S			0.180	200		
	W	HOLE VE	HICLE EVAPO	RATIVE E	MISSION S	TANDA	RDS AND	CERTIFIC	ATION LEVELS	5		
				WHOLE V	EHICLE E	APORA	TIVE TES	TING				
	ORATIVE	FUEL TY	PE 3DH	HS (g/test) @ UL			HS (g/test	) @ UL	RL	RL (g/mi) @ UL		
			CERT	STD	FEL	CERT	STD	FE	L CERT		STD	

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FUEL ONLY / CANISTER BLEE	DEVAPORATIVE						ELS		
				LY EVAP & CANISTER BLEED					
VE ORVR (g/gallon) @ UL	FUEL TYPE	3DHS RI (g/test)				BLEED CANISTE TEST (g/test) @ 4			
FUEL TYPE CERT STO		CERT	STD	CERT	STD	CERT	STD		
GASOLINE - TIER 2 0.04 0.20 UNLEADED	*	*	*	*	*	*	*		
GVVVR. gloss vehicle weight rat							: family		
EV; SULEV: super ULE onal ZEV; TWC/OC: 3- NOx adsorption catalyst; ignited engine; HO2S/ ensor; PMS: PM senso cooler; AIR/AIRE: secor DFI/IFI: direct/indirect fin diagnostic; DOR: direct CNG/LNG: compressed	V; ŽEV: ze way/oxidizi vst; SCR-U CTOX/PT O2S: heate r; RDQS: r ndary air in uel injectio ct ozone re d/liquefied	weight rating; LVW: loaded vo V; ZEV: zero-emission vehicl way/oxidizing catalyst; ADST rst; SCR-U or SCRC/SCR-N of CTOX/PTOX: continuous/pe 02S: heated/oxygen sensor; r; RDQS: reductant quality se hdary air injection (belt driven uel injection; TC/SC: turbo/su ct ozone reducing; HCT: hydr d/liquefied natural gas; LPG: I	weight rating; LVW: loaded vehicle weigh V; ZEV: zero-emission vehicle; PZEV: pa way/oxidizing catalyst; ADSTWC: adsorbi rst; SCR-U or SCRC/SCR-N or SCRC-NH CTOX/PTOX: continuous/periodic trap of 02S: heated/oxygen sensor; WR-HO2S of r; RDQS: reductant quality sensor; NH3S hdary air injection (belt driven)/(electric dri uel injection; TC/SC: turbo/super charger; ct ozone reducing; HCT: hydrocarbon trap d/liquefied natural gas; LPG: liquefied peti	weight rating; LVW: loaded vehicle weight; ALVW: a V; ZEV: zero-emission vehicle; PZEV: partial ZEV; way/oxidizing catalyst; ADSTWC: adsorbing TWC; I rst; SCR-U or SCRC/SCR-N or SCRC-NH3: selectiv CTOX/PTOX: continuous/periodic trap oxidizer; DF 02S: heated/oxygen sensor; WR-H02S or AFS: wid r; RDQS: reductant quality sensor; NH3S: ammonia hdary air injection (belt driven)/(electric driven); PAII uel injection; TC/SC: turbo/super charger; CAC: cha ct ozone reducing; HCT: hydrocarbon trap; BCAN: t d/liquefied natural gas; LPG: liquefied petroleum ga	weight rating; LVW: loaded vehicle weight; ALVW: adjusted LV V; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC ar st; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel p 02S: heated/oxygen sensor; WR-HO2S or AFS: wide range/lin r; RDQS: reductant quality sensor; NH3S: ammonia sensor; E ndary air injection (belt driven)/(electric driven); PAIR: pulsed A uel injection; TC/SC: turbo/super charger; CAC: charge air coo ct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbo d/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85"	weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: Id V; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing c rst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction- CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate 02S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated r; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhau ndary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MI uel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: ct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister d/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol	hicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: r duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission V; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology F way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: rst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammor CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active) 02S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel rati r; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirc ndary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequentia uel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/pi ct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: pa d/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasc fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transm		

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
BMW	M6 CONVERTIBLE	PC	4.4	AMS7,M6	HBMXR0130S63	1	F	*
BMW	M6 COUPE	PC	4.4	AMS7,M6	HBMXR0130S63	1	F	*
BMW	M6 GRAN COUPE	PC	4.4	AMS7,M6	HBMXR0130S63	1	F	*