### California Environmental Protection Agency

## **⊘** Air Resources Board

#### BAYERISCHE MOTOREN WERKE AG

Executive Order: A-008-0428

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	UP II	NFC	RMATIO	N				<del></del>		
MODEL	_ 1 7 1	TEST GROUP VEHICLE (					LE CLASS(ES)			FUEL CATEGORY				FUEL TYPE		
2017	HBMXT04.4F15 LDT4							DEDICATED SINGLE FUEL VEHICLE				GASOLINE				
USEFUL LIFE (miles) VEHICLE EMISSION								CAT	EGORY		IN	TERIM / IN	RIM / INTERMEDIATE IN-USE STD			
EXH/ORVR EVAP						FTP		SFTP			FTP			SFTP		
150000 150000					LE	V3 ULEV125	ULEV125 LEV 3 COM			ITE PM				NMOG+NOX AND PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS									0	OBD STATUS		EN	ENGINE DISPLACEMENT (L)			
1	1 2TWC, 2WR-HO2S, 2HO2S, DFI, 2TC, 2CAC								FULL			*				
*	* *								PARTIA	\L	AL	ALL MODELS		4.4		
*	*							P	ARTIAL V	<b>x</b>						
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION															
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO							3OR	DRY EVAP E					SF	SPECIAL FEATURES		
HBMKR0170N63 LEV 2						LEV 2		LDT4				*				
	EMISSION CREDIT INFORMATION															
ALLOWANCE FOR TEST GROUP													REDIT FOR		OPTIONAL EXH. STD FOR WORK	
BASELINE PZEV AT PZEV						TZEV			I-PZEV ZERO-EVAP			DOR			TRUCKS	
* *						*	* N				N N					
NMOG AND FLEET AVERAGE INFORMATION																
NMOG RAF	NMOG/NMHC				O/NMHC NMOG+NOX I PC+LDT (0-3 (g/m			3750 LVW)		NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi		MDV (10001-14000		(10001-14000		
*	* 1.10 *					0	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.

#### 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 June 2016.

Dollar

Emissions Compliance, Automotive Regulations and Science Division

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HBMXR0170N63

FUEL TYPE | CERT

GASOLINE

TIER 2

UNLEADED

## **ATTACHMENT**

			_			PORATI											
- 4		E	XHA	(r	CH4: me	ethane; NN e; NOx: o	MOG: no	n-CH4 o	rganic (	gas; HC: : formald	hydrocar lehyde; P	bon; NMF M: particu	IC: no	n-CH4 He	C; CO: ca	ity	
		FUEL TYPE			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												
	N.				NMOG+NOx (g/mi)			CO (g/mi)			lOx /mi)	HCHO (mg/mi)			PM (g/mi)		
					CERT	STD	CE	RT S	STD	CERT	STD	CER	Т	STD	CERT	STD	
TP@5	0K	*			*	*		*	*	*	*	*		*	*	*	
FTP@U	JL	GASOLINE- LEV3 E10			0.055	0.12	5 0	.2	2.1	*	*	* *		4	0.001	0.003	
50°F @			EASOLINE- LEV3 E10		0.044	0.25	0 0	. 4	2.1	*	*	*		16			
1						EUEL T	VDE			N	MOG+NO	Ox (g/mi)		(	CO (g/mi)		
-					FUEL TYPE					CE	CERT S		STD CEI			STD	
HWFE	Г@ 5	50K				*					*		. *			rigues jui	
HWFE	Т@	UL			GAS	OLINE-L	EV3 E1	.0		0.	006	0.125				- 10	
20°F	@ 50	K	CO	LD C	E10	REGULAR	GASOL	INE (T)	ER3)		74		- 1	1.1		12.5	
				5	SFTP EX	CHAUST E			NDARD	S AND C			EVEL				
	FUEL T		TYPE				US06				SC03			COMPOSITE			
					NMOG+NOx (g/mi)			CO PI (g/mi) (mg			NMOG+NOx (g/mi)			OG+NOx g/mi)	CO (g/mi)	PM (mg/mi	
@ 4K		*		CERT	RT *		*	* 10g			*						
				STD	D *		*	*		*		*					
		GASOLINE- LEV3 E10 S1		CERT		*	*	*			*		0	.049	0.5	*	
@ UL				STD		*	*		10		**	*	0.103		4.2	*	
				BIN			13.1				- 1		0	.120			
			WH	OLE V	/EHICLI	E EVAPO							ATIO	V LEVELS	S		
							WHOLE	VEHIC	LE EVA	PORATI	VE TEST	ING		DI	((!) <b>(</b>		
FAMILY			VE FUEL					/test) @ UL		2DHS (g/test)		@ UL		RL (g/mi) @		UL	
							STD	STD FEL		ERT	STD	FEL		CERT		STD	
HBMXR0170N63		0N63	GASOLINE - 3 TIER 2 UNLEADED		2	0.43	0.90	.90 *		*	1.15	*		0.03		0.05	
	DRVR	R / FUI	EL C	NLY	CANIS	TER BLE	ED EVA	PORAT	IVE EM	ISSION	STANDA	RDS AND	CER	TIFICAT	ON LEVE	LS	
										FUEL ON	NLY EVA	P & CAN	STEF	BLEED			
EVAPORATIVE FAMILY			TE ORVR (g/gallon) @ UL								TEST	1	2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K		
	MIL'	Y					FU	JEL LAL		(g/test)	( UL	(g/te	st) w	OL 1	E31 (g/te	31/10/4	

\*

STD

0.20

0.02

STD

CERT

CERT

STD

CERT

STD

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: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: .DT<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	OBD	PZEV TYPE
BMW	X5 XDRIVE50I	LDT4	4.4	SA8	HBMXR0170N63	1	P	*
BMW	X6 XDRIVE50I	LDT4	4.4	SA8	HBMXR0170N63	1	P	*