California Environmental Protection Agency

OB Air Resources Board

BAYERISCHE MOTOREN WERKE AG Executive Order: A-008-0403

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 GROUP INFORMATION																	
MODEL YEAR	- 1	TEST GROUP				VEHICLE CLASS(ES)				FUEL (FUEL CATEGORY				FUEL TYPE		
2016	16 GBMXT04.4F15					LDT4					DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
USEFUL LIFE (miles) VEHIC							ICLE EMISSION CATEGORY					INTERIM / INTERME			DIATE IN-USE STD		
EXH/ORVR EVAP					FTP					SFTP	-TP		FTP		SFTP		
150	150000 150000				LE	V3 U	ULEV125 LEV 3			COMPOSITE	TE PM			NMOG+NOX AND PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								L		OBD S	STATUS		ENGINE DISPLACEME (L)				
1 2TWC, 2WR-H02S, 2H02S, DFI, 2TC, 2CAC										FULL		*					
*	*									PARTIAL	AI	LL MODELS	4.4				
*	*								P	ARTIAL WITH FINES		*					
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION																
EVAF	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							SOR	RY EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES					
GBMXR0170N63					LEV 2					L	LDT4			*			
						ΕN	MISSION C	REDI	T IN	FORMATION							
ALLOWANCE FOR TEST GROUP							_	NMOG CREDIT FOR NMOG CRED				FOR	S TO FOR WORK				
BASE	BASELINE PZEV AT PZE			I PZEV		TZEV									TRUCKS		
* *				*				N			И		N				
NMOG AND FLEET AVERAGE INFORMATION																	
NMOG	GRAFICHARAFI				OG/NMHC ATIO HCHO/NMHC			НСІ	RAT		NMOG+NOX F PC+LDT (0-3 (g/m		3750 LVW) L		MOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		
*		*		1.10			*				0.093			0.110			

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).

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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Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

							A	ITAC	HIVI	ENI					4		
	EXHA	US'	T ANI	D E\	/APOR	RATIVE	EMIS	SIONS	ATA	IDARI	OS AND	CERT	FICATION	ON L	EVELS		
		EXH	AUST	EMIS	SSION S	TANDA	RDS AN	ND CERT	TIFIC A	TION	EVELS	(FTP, HW	FET, 50°F	, 20°	F)		
	FUE	FUEL TYPE		mono adjus ORV	oxide; No stment fa R [a HC/	Ox: oxide actor; 2D gallon d	es of nitr HS/3DH ispense	rogen; Ho IS [g HC/ d]: on-bo	CHO: /test]: oard re	formald 2/3 day fueling	ehyde; P s diurnal- vapor red	M: particu +hot-soak covery; g:	IC: non-Cl llate matte ; RL [g ḤC gram; mg 2: supplem	r; RA /mi]: : millig	F: reactive running legram; mi:	vity oss;	
		-			NMOG+NOx (g/mi)			CO (g/mi)			NOx (g/mi)		HCHO mg/mi)			PM (g/mi)	
						STD	-	_		CERT STD		CER		5	CERT	STD	
FTP@5	TP@50K			1	,	*	*	*		*	*	*	*		*	*	
FTP@L	CASOLINE-			0.0	055	.125	0.2	2.1	L	*	*	*	4	4 0		0.003	
50°F @4	NoE WALL		OLINE- 3 E10		044	.250	0.4	2.1		*	*	*	16	2011	A A N	The second second	
1874					FIL	EL TYPI	-			NMOG+NO		Ox (g/mi)		CO (g/mi)			
					FU				CERT		(CERT		STD			
HWFET	T @ 50K					*					*	*		10 11 Z		Table of the second of the sec	
HWFE	T@UL			GASOLINE-LEV3 E10				0		0.	006 0.125						
20°F @ 50K COLD			OFD C	CO E10 REGULAR GASOLINE (TIER3)					(3)					1.1		12.5	
				SFTF	EXHA	JST EM	ISSION	STANDA	ARDS	AND C	ERTIFIC	ATION L	EVELS				
		1.00 mg			US06						SC03 COMPOSITE NMOG+NOx CO NMOG+NOx CO P						
	FUEL 1	UEL TYPE		NMOG+NOx (g/mi)			CO PM (g/mi) (mg/r				G+NOx /mi)	CO (g/mi)		(g/mi)		PM (mg/mi	
@ AK		* CEI		D *			*				*	*			KING STATE		
@ 4K							*	* 445		*		*					
	CACOL	GASOLINE- LEV3 E10					*	2			*	*	0.049		0.5	*	
@ UL					*		*	1	0	N. 1.5	*	*	0.110		4.2	*	
				BIN			RATIVE EMISSION STA			NDARDS AND C		0.120			2 21 21		
		W	HOLE	VEHI	CLE EV						VE TEST		ATION LE	VEL	-		
	ORATIV	E,	FUEL '	TYPE		BDHS (g			LVAL		S (g/test)			RL (g/mi) @ UL			
FA	FAMILY				CERT				CE	CERT STD		FEI		CERT		STD	
GBMXR0170N63			TIE	LINE - ER 2 0.43 EADED		13 0	.90 *		0.	0.43 1.15		* 0		0.03	03 0.05		
(ORVR / F	UEL	ONLY	/CA	NISTER	BLEED	EVAPO	DRATIVE	EMIS	SSION	STANDA	RDS AND	CERTIF	CATI	ON LEVI	ELS	
EVAPORATIVE FAMILY		E	ORVR (a		R (g/gallon) @ UL						UEL ONLY EVAP		& CANISTER BL				
							FUEL TYPE			(g/test) @ UL			st) @ UL	UL TEST		est) @ 4K	
				YPE	CERT	STD			CE	ERT STD		CERT	STD		CERT	STD	
GBMXI	R0170N6	3	SOLIN TIER	2	0.02	0.20	*		* *		*	*		*	*		

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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; 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 sparkignited 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

2016 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
BMW	X5 XDRIVE501	LDT4	4.4	SA8	GBMXR0170N63	1	P	*
BMW	X6 XDRIVE501	LDT4	4.4	SA8	GBMXR0170N63	1	P	*