California Environmental Protection Agency

⊘ Air Resources Board

BAYERISCHE MOTOREN WERKE AG Executive Order: A-008-0391-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

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	NFOR	MATION					
MOD		TEST G	ROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
201	.6	GBMXV04	.4N63			PC			DEDICATED SINGLE FUEL GASOLINE VEHICLE				GASOLINE	
	USEF	UL LIFE	(miles)		VE	EHICLE EMISS	ION	CATE	GORY	IN	ITERIM / INT	ERMEDI	ATE IN-USE STD	
EX	H/ORV	R	EVAP			FTP		SF	TP		FTP		SFTP	
1	120000		150000)	LE	EV2 ULEV	1		SFTP		*		*	
SP	PECIAL	FEATUR		HAUST	EMISS	SION CONTRO	L		OBD S	TAT	US	ENGIN	E DISPLACEMENT (L)	
1	21	WC, 2WI	R-HO2S,	2H02S	, DFI	, 2TC, 2CAC			FULL		*			
*				*				F	PARTIAL	AL	L MODELS		4.4	
*				*				PAF	RTIAL WITH		*			
			E	VAPOR	ATIVE	& REFUELING	(EV	AP/OF	RVR) FAMILY	/ INF	ORMATION			
EV	AP / OF	RVR FA	MILY	EVAP	ORATI	VE STD CATE	GOR	DRY EVAP EMISSION STD VEHICLE CLASS				SPEC	AL FEATURES	
	GBMXR	0130N54	1			LEV 2			F	PC			HCT	
	GBMXR	0170N63	3		·	LEV 2			E	PC			*	
						EMISSION C	REDI	TINF	ORMATION					
BAS	SELINE		ANCE F	OR TES	ST GRO)UP TZEV						REDIT FOR OPTIONAL EXH STD FOR WORK TRUCKS		
	*			*		*	+		N N				N	
					NMC	OG AND FLEET	T AVE	RAG		TION				
NMO	NMOG RAF CH4 RAF FTP NMOG/NMHC RATIO HCHO/NMH				NMOG+NOX FLEET ST PC+LDT (0-3750 LVW)		LEET STD 750 LVW)	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)						
	*	*		1.0	4		*			0.0	93		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 for PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

This Executive Order hereby supersedes Executive Order A-008-0391 dated March 3, 2015.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 2 day of August 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS	AND CERTIFICATION LEVELS	(FTP, HWFET, 50°F, 20°F)
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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

The Control of Street											
		NMOG (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	GASOLINE - TIER 2 UNLEADED	0.014	0.040	0.6	1.7	0.02	0.05	*	8	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.016	0.055	0.7	2.1	0.02	0.07	*	11	0.00	0.01
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.012	0.080	0.6	1.7	0.02	0.05	*	16		

	FUEL TVDE	NOx	(g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0.01	0.07			
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.01	0.09		and the second second	
20°F @ 50K	GASOLINE-COLD CO HIGH OCTANE			0.8	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	CON	IPOSITE	
	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
	GASOLINE	CERT	0.07	0.5	科 教育2011	0.03	0.7	The state of the s		
@ 4K	- TIER 2 UNLEADED	STD	0.14	8.0		0.20	2.7			
		CERT	*	*	*	*	*	*	*	*.
@ UL	*	STD	*	*	*	*	*	*	*	*
		BIN						*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test)	@ UL	2DI	HS (g/test) @	RL (g/mi) @ UL		
T Alline 1		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
GBMXR0130N54	GASOLINE - TIER 2 UNLEADED	0.31	0.50	*	0.33	0.65	*	0.01	0.05
GBMXR0170N63	GASOLINE - TIER 2 UNLEADED	0.43	0.50	*	0.43	0.65	*	0.03	0.05

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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

011111101	0.11_1 / 0/1											
				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		
GBMXR0130N54	GASOLINE - TIER 2 UNLEADED	0.00	0.20	*	*	*	*	*	*	*		
GBMXR0170N63	GASOLINE - TIER 2 UNLEADED	0.02	0.20	*	*	*	*	*	*	*		

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

2016 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
BMW	5501	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	5501 XDRIVE	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	5501 XDRIVE GRAN TURISMO	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	6501 CONVERTIBLE	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	650I COUPE	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	6501 GRAN COUPE	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	6501 XDRIVE CONVERTIBLE	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	6501 XDRIVE COUPE	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	6501 XDRIVE GRAN COUPE	PC	4.4	SA8	GBMXR0130N54	1	P	*
BMW	7501	PC	4.4	SA8	GBMXR0170N63	1	P	*
BMW	750I XDRIVE	PC	4.4	SA8	GBMXR0170N63	1	P	*
BMW	750I XDRIVE (SWB)	PC	4.4	SA8	GBMXR0170N63	1	P	*
BMW	ALPINA B6 GRAN COUPE XDRIVE	PC	4.4	SA8	GBMXR0130N54	1	P	*