California Environmental Protection Agency

⊘ Air Resources Board

BAYERISCHE MOTOREN WERKE AG Executive Order: A-008-0406

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													
MOD YEA		TEST	GROUP		VEHICLE CLASS(ES)			FUEL C	ATEGORY	FUEL TYPE			
201	.6	GBMXV02.0M46 PC						DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
USEFUL LIFE (miles)					VEHICLE EMISSION CAT			EGORY	INTERIM / IN	TERMEDIA	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP			•		FTP		SFTP	FTP		SFTP			
1	150000 150000			0	LEV	V3 SULEV30 LEV		COMPOSITE	PM	NMO	NMOG+NOX AND PM		
SPECIAL FEATURES & EXHAUST EMISSION CON SYSTEMS							L	OBD S	TATUS	ENGINE DISPLACEMENT (L)			
1	WU-	WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC, DOR						FULL	ALL MODELS				
*				*				PARTIAL *			2.0		
*	*							ARTIAL WITH FINES	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EV	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO							RY EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
GBMXR0100F5X LE				V 3 OP	TION2 WITH	FEL	P	С		HCT			
EMISSION CREDIT INFORMATION													
ALLOWANCE FOR TEST GROUP BASELINE PZEV TZEV								NMOG CREDIT FOR NMOG CI			OPTIONAL EXH. STD FOR WORK TRUCKS		
ALL MODELS *					*		И		Y	N			
NMOG AND FLEET AVERAGE INFORMATION													
NMO	NIMICIO DA EL CHA DA EL				NOG/NMHC ATIO HCHO/NMHC			IO PC+LDT	OX FLEET STD (0-3750 LVW) (g/mi)	LDT (3	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		
	* * 1.10				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 for PC, LDT and MDV).

BE IT FURTHER RESOLVED:

The listed vehicle models are granted a 0.004 g/mi exhaust NMOG credit pursuant to 13 CCR Section 1961(a)(12) [direct ozone reduction] for all certification and in-use testing. The NMOG+NOx certification level shown in this Executive Order does not have any credit applied.

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 23 day of July 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

FAMILY

GBMXR0100F5X

FUEL TYPE

GASOLINE-

LEV3 E10

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(g/test) @ UL

STD

*

CERT

*

(g/test) @ UL

STD

*

CERT

FUEL TYPE

GASOLINE-

LEV3 E10

STD

0.20

CERT

0.09

TEST (g/test) @ 4K

STD

0.020

CERT

0.008

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

		EXH	AUST	EMISSIC	ON STAI	NDARDS A	AND CER	RTIFICA	ATION	LEVELS	(FTP, HV	VFET,	50°F, 20	°F)			
	FUE	L TYI	n a C	nonoxide idjustme DRVR [g	e; NOx: ont factor HC/gallo	MOG: nor exides of r ; 2DHS/3I on dispens grees Fah	itrogen; h DHS [g H(sed]: on-b	HCHO: C/test]: loard re	formalo 2/3 day	lehyde; F s diurnal vapor re	M: partic +hot-soal covery; g	ulate i k; RL gram	matter; R/ [g HC/mi]: n; mg: mill	AF: reactive running I	vity oss;		
				NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)		HCH (mg/r				PM (g/mi)		
				CERT	STE	CEF	RT ST	D	CERT STD		CER	T	STD	CERT	STD		
FTP@50I	ok *			*	*	*	*	,	*	*	*		*	*	*		
FTP@UL		OLIN V3 E1	_	0.014	0.03	0.:	2 1.	0	*	*	*		4	0.001	0.003		
50°F @41	°F@4K GASOLINE- LEV3 E10			0.021	0.06	0.:	3 1.	0	<	*	*						
				FUEL TYPE					N	Ox (g/mi)	(g/mi)		CO (g/mi)				
									CERT		STD		CERT		STD		
HWFET	@ 50K				*				*		*			31.			
HWFET @ UL				GASOLINE-LEV3 E10					0.006		0.03	0.030					
20°F @ 50K GASOLII				SOLINE	INE-COLD CO LOW OCTANE						0.8			10.0			
			S	FTP EX	HAUST	EMISSIO	NSTAND	ARDS	AND C	ERTIFIC	ATION L	EVEL	S				
		UEL TYPE			US06				SC03		1			MPOSITE	ΓE		
	FUEL T			NMOG+NO:		CO (g/mi				G+NOx /mi)	CO (g/mi)	NMOG+NOx (g/mi)		CO (g/mi)	PM (mg/mi		
		*			* *		1 1	17 A 18		*				7 1 1 1 1			
@ 4K	*				*	*		1		*	*				- 4.13 4		
			CERT		*	*		8		*	*	0.0		0.4	*		
@ UL		LEV3 E10		* d		*	10			*	*	0.110		4.2	*		
												0.050		100			
		WH	OLE V	EHICLE	EVAPO	RATIVE	EMISSIO	N STAI	NDARD	S AND	CERTIFIC	ATIO	N LEVEL	.S			
		1				WHOLE	VEHICLE	EVAF	ORATI	VE TEST	TING						
EVAPORATIVE FAMILY		F	UEL TYPE 3DHS (g			S (g/test)	/test) @ UL		2DHS (g/test)		@ UL		RL	_ (g/mi) @	(g/mi) @ UL		
					CERT STD		FEL	CE	RT STD		FEL		CER	Т	STD		
GBMXR0100F5			ASOLI LEV3		0.270	0.300	0.300	0.1	197	0.300	0.300		0.0	5	0.05		
OI	RVR / F	UEL C	ONLY /	CANIS	TER BL	ED EVA	PORATIV	EEMIS	SSION	STANDA	RDS AN	D CE	RTIFICAT	ION LEV	ELS		
								F	UEL O	NLY EVA	P & CAN	ISTE	R BLEED				
EVAPO	RATIVI		ORVR (g/gallon) @ UL						DHS RIG TEST 2DHS RIG TE					ST BLEED CANISTER			

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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: 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; 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					
MINI	MINI COOPER S HARDTOP 2 DOOR	PC	2.0	M6,SA6	GBMXR0100F5X	1	F	PZEV					
MINI	MINI COOPER S HARDTOP 4 DOOR	PC	2.0	M6,SA6	GBMXR0100F5X	1	F	PZEV					

