

BAYERISCHE MOTOREN WERKE AG

EXECUTIVE ORDER A-008-0169 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515-39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That 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.

MODEL YEAR TEST			T GROU	IP		VEHICLE TYPE C=passenger car; LDT=light-duty uck; MDV=medium-duty vehicle; LVW=loaded vehicle weight; ALVW=adjusted LVW)	EXHAUST EN STANDARD CA (LEV=low emissic TLEV= transitio ULEV=ultra SULEV=super	ATEGORY on vehicle; nal LEV; LEV;		(HAUST & ORVR / EVAPORATIVE FUL LIFE (UL) (miles)	FUEL TYPE (CNG/LNG=compressed/ liquefled natural gas; LPG=liquefled petroleum gas)			
2004			MXV04.4LEV			PC	LEV			DK / 150K (EVAF 1) DK / 100K (EVAF 2)	Gasoline			
No.		APORATIVE MILY (EVAF)			No.	SPECIAL FEATU EMISSION CONTROL S		* = not app	licable	OC/TWC=oxidizing/3-way cat. ADSTWC=adsorbing T WU= warm-up cat. O2S/HO2S=oxygen sensor/heated (
1	4BN	4BMXR0090E60			1	2TWC, 2HAFS,	2HO2S, SFI, AIR, O	MAFS/HAFS=air-fuel ratio s	ensor/heated AFS EGR≠exhaust					
2	4BN	MXR0158E65			2		*	gas recirculation AIR/PAIR=secondary air injection/pulsed AIR MFI/SFI= multiport fuel injection/sequential MFI						
3		*			3		*	NTBl= throttle body injection	on TC/SC=turbo /super charger					
4		*		4		*	CAC=charge air cooler OBD (F) / (P)=full /partial on-board diagnostic prefix 2=parallel (2) suffix=series							
EVAF No.				VEHICLES SUBJ STANDARDS AR										
1		1	4.4		BMW: 545i, 645Ci, 645Ci Convertible									
2		1	4.4											
*		*	*			•								
*		*	*											

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows (compliance with the 50 °F testing requirement (for TLEV, LEV, ULEV, SULEV) may have been met based on the manufacturer's submitted compliance plan in lieu of testing). Any debit in the manufacturer's "NMOG Fleet Average" (PC and LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required. (For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

NMOG FLEET AVERAGE [g/mi]			NMOG @ CH4 R	RAF = * AF = *	NMOG or	CH4=methane NMOG=non-CH4 organic gases NMHC=non-CH4 hydrocarbons CO=carbon monoxide NOx=oxides of nitrogen HCHO=formaldehyde PM=particulate matter RAF=reactivity adjustment factor 2/3 D [g/test]=2/3 day diurnal+hot-soak RL [g/mi]=running loss ORVR [g/gallon dispensed]=on-board refueling vapor recovery g=gram											
CER	CERT STD		NMOG	NMHC	NMHC STD	mg=millig	ot-soak Ki ram mi=	∟ (g/mıj=run :mile K≃1	ning loss 000 miles	ORVR [g	g/gallon grees F	dispensed] ahrenheit	=on-board : SFTP=sun	refueling vap opiemental fe	or recovery	g=gram	
0.04	8 (0.053	CERT	CERT	[g/mi]	CO [g/mi]			x [g/mi]		HCHO [g/mi]	Hwy NO		
598611828 ±134544	fown - void troops are		[g/mi]	[g/mi]		CERT	STD	CERT	STE	CE	ERT	STD	CERT	STD	CERT	STD	
		@ 50K	0.037	*	0.075	0.5	3.4	0.1	0.2	1	1.0	15	*	*	0.01	0.3	
	4.	@ UL	0.043	*	0.090	0.6	4.2	0.1	0.3	1	1.0	18	*	•	0.01	0.4	
	@ 50	°F & 4K	0.042	*	0.150	0.7	3.4	0.1	0.2	1	1.0	30	*	*	*	*	
	@ 20°F &				NMHC+NOx [g/mi] (composite)			CO [g/mi] (composite)		NMHC+NOx [g/mi] [US06]		O [g/mi] [US06]		HC+NOx ni] [SC03]		[g/mi] C03]	
50					CERT	STD	CERT	STD	CERT	STD	CE	RT STI	CER	T STD	CERT	STD	
CERT	2.9		da a	SFTP 1	*	*	*	*	0.11	0.14	0.	5 8.0	0.11	0.20	0.2	2.7	
STD	10.0			SFTP 2	*	*	*	•	*	*	*	*	*	*	•	•	
@ UL	E	VAPOR	ATIVE FAN	ILY 1	EVAPORATIVE FAMILY 2				EVAPORATIVE FAMILY 3				E	EVAPORATIVE FAMILY 4			
	3-D	2-0	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVI	R 3-D	2-D	RL	ORVR	
CERT	0.23	0.3	1 0.02	0.12	0.6	0.5	0.03	0.03	•	*		*	*	*	•	*	
STD	0.50	0.6	5 0.05	0.20	2.0	2.5	0.05	0.20	•	*	*	*	•	*	*	*	

BE IT FURTHER RESOLVED: That 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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model 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 September 2003.

Allen Lyons, Chief Mobile Source Operations Division