State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-177 Relating to Certification of New Motor Vehicles

DAIMLER-BENZ AG

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Daimler-Benz AG exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: XMBXV03.2GNB Displacement: 2.8 Liters (171 Cubic Inches) 3.2 Liters (195 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Sequential Multiport Fuel Injection Secondary Air Injection Exhaust Gas Recirculation Dual Three Way Catalytic Converters Dual Warm Vp Three Way Catalytic Converters Dual Heated Oxygen Sensors (two)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The LEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u> <u>Organic Gases</u>	Carbon <u>Monoxide</u>	<u>Oxides</u>	Formaldehyde	Carbon <u>Monoxide (20°F)</u>
5 0,000 0.075	3.4	0.2	0.015	10.0
100,000 0.090	4.2	0.3	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.94 RAF for 1999 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>
50,000	0.014	0.2	0.1	0.001	2.8
100,000	0.014		0.1	0.003	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

E IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this _24th day of July 1998.

Mobile Source Operations Division

21/07 '98 DI 15:28 FAX +49 711 1754443

EP/CZE DAIMLER/BENZ AG +++ HERRBRICH

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1999 MODE PASSENG	L-YEAR AIR RES	DURCES B	OARD SUPPLEME	Pa NTAL DATA SH -DUTY VEHICLE	ge 1 of <u>2</u> EET S
Manufacturer: Daimler-Benz All Eng Codes in Eng Fam: Exh Std: Veh Class(es): PC X Single Cert Std for Multi-Class Fuel Type(s): Dedicated CNG Exh. Emiss Test Fuel(s): Indo Die Evaporative Emission Test Pro Service Accum: Std NMOG Test Procedure: N/A	Exh. Eng Fa CA Tier-1 TLEV LDT1 LDT2 SEng Fam: N/A X Flex-Fuel LNG CBG X sel: 13 CCR 2282 Scedure: California AMA X Mod A Std X	Armily: XMB) 50S /LEV MDV1 (specif Dual-F LPG CNG	XV03.2GNB Evap X AB965 X ULEV SUL MDV2 ME fy: N/A, LDT1, M Fuel Bi-Fuel M85 40 CFR 86.113 Federal X Mfr ADP R/L Test Proc. S	Family: XMBX ORVR ORVR EV US DV3 MDV4 10V1, MDV2, Gasoline X Other (specify) 0 S0 40 CFR 8 Other (specify) P	E0115NNZ (esNo_X Tier 1 NLEV MDV5 MDV3, MDV4) Diesei 36.113-94 Source
Engine Configuration: V-E Valves per Cylinder: 3 Engine: Front X Mic Exhaust ECS (eg., MFI, EG	Displacement d Rear GR, TC, CAC): SRI	nt: 2.8 / AIR / EGR / (use a	13.2 Liters Rated HP: 194 @ Drive: FWD R 12 HO2S(2) / 2 WU-T abbreviations per SAE	<u>171 / 195</u> 5800 / 215 (05700 WD X 4WD-FT WC / 2 TWC J1930 JUN93)	Cubic Inches
Engine Code (also list CA/49ST/ <u>50ST)</u> attachme	lodels Trans. Type see (A 4, M 5 ht) etc)	ETW Di or Test Wt R	PA Ignition (ECM/PCM) LHP Part No.	EGR System Part No.	Catalytic Converter Part No.
M 112-28 C 280	L.5'	3 625	7.3 A 025 545 59 32	A 112 140 00 60	A 202 490 98 14 or

M112-28	C 280	7.5					or A 202 490 99 14 (underhood) A 210 490 44 14 or A 210 490 45 14 (underfloor)
M 112-32A	CLK 320 (Coupe)	L 5	3 625	5.9	A 024 545 59 32	A 112 140 00 60	A 202 490 98 14 or A 202 490 99 14 (underhood) A 210 490 44 14 or A 210 490 45 14 (underfloor)
			D dail	-			

Date Issued: 200/32GBMZ2A.pm6-b0 Revisions:

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1999 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Daimle	r-Benz	Exh. Eng Family:	XMBXV03.2GNB	Evap. Family: X	MBXE0115NNZ
All Eng Codes in Eng	Fam: CA	49S	50S X	AB965 OR	EPA Tier 1 NLEV
Exh Std:	CA	Tier-1ILEV		MDV3 MD	V4 MDV5
Veh Class(es): PC	XU		IVID VI NICOZ	DTA MOVA MOV	MDV3 MDV4)
Single Cert Std for Mu	Iti-Class Eng	Fam: <u>N/A</u>	(specify: N/A, L		
Fuel Type(s): De CN	dicated X	Flex-Fuel LNG	LPG M85	Other (specif	y)
Exh. Emiss Test Fuel(s): Indo Diesel: 1	CBG X CNG 13 CCR 2282		M85Other (specify 86.113-9040	y) CFR 86.113-94
Evaporative Emission	Test Procedu	re: California	Federal	×	
Service Accum:	Std AMA	X Mod AMA	Mfr ADP	Other (specif	y)
NMOG Test Procedure	e: N/A	Std X Equiv	R/L Test Proc	SHED X	Pt Source
Engine Configuration:	V-6	Displacement:	2.8/3.2	Liters <u>171/195</u>	Cubic Inches
Valves per Cylinder:	3		Rated HP:	194 @ 58007 2157	DIT AND DT
Engine: Front X	Mid	Rear	Drive: FWD	RWD X 4W	10-FI4VVD-FI
Exhaust ECS (eq. M	FI EGR. TO	C, CAC): SFILAIR	EGR / 2 HO2S(2) /	2 WU-TWC / 2 TWC	

(use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/ <u>50ST)</u>	Vehicle Models (If coded see attachment)	Trans, Type (A 4, M 5 etc)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
M112-32A	CLK 320 (Convertible)	LS	4 000	5.9	A 025 545 86 32	A 112 140 00 60	A 202 490 98 14 or A 202 490 99 14 (underhood) A 210 490 44 14 or A 210 490 45 14 (underfloor)

Date Issued: 200032G8MZ28.pm5-b6 Revisions:

zotv32GNBNNZ1 pm5-b0

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1999 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES (0.877)

	Manufacturer: Daimler-Benz	Exh. Engine Family	XMBXV03.2GNB	Evap Family XN	BXE0115NNZ	
	All Eng Codes in Eng Fam: CA	49S 50	S X AB965	ORVR Y	No X	
	Exh Std: CA Tier-1	TLEV LEV	X ULEVSUL	EVUS EF	A Tier 1 NLEV	
	Veh Class(es): PC X LDT	1LDT2M	DV1MDV2	MDV3 MD	A MDV5	
3	Single Cert Std for Multi-Class Eng F	am: <u>N/A</u> (specify:	N/A. LDT1, MI	DV1, MDV2,	MDV3, MDV4)	
	Fuel Type(s): Dedicated X Fla	x-Fuel Dual-Fuel	Bi-Fuel	Gasolina X	Diesel	
	CNGLNG	LPGM85	Other (specify)			
	Emiss Test Fuel(s): Indo CBC	X_CNGLPG_	M85 Othe	er (specify)		
	Diesel: 13 CCF	R 2282	40 CFR 86.113-9	00 40 CF	R 86.113-94	
	Evaporative Emission Test Procedur	e: California	Federal	X		
	Service Accum: Std AMA X	Mod AMAMfr ADI	Other specify)			
1	NMOG Test Procedure: N/A	Std _XEquiv	R/L Test Proc:	SHED X	Pt Source	
	Engine Configuration: <u>V-6</u>	Displacement; 2.8	<u>3/3.2</u> Liter	3 171/195	Cubic Inches	
	Valves per Cylinder: 3		Rated HR: 194	@ 5800 / 215 / 570	RPM	
1	Engine: Front X Mid	_ Rear	Drive: FWD	RWD X 4WE	-FT4WD-PT	
1	Exhaust ECS (eg., MFI, EGR, TC	, CAC): SFI/AIR/	EGR / 2 HO2S (2) / 2	WU-TWC / 2 TWC		
		(Us	se abbreviations per s	SAE J1930 JUN93)		
		Sect (Den all			-	
	4 Authorized Depresentation	Sect. Mage #			Sect./ Page #	
	2 Eval Specifications	02	22 Gen Std, Increa	se in Emiss,	40	
	2 Test Equipment	04	Calety, Meets a	Reqmis	10	
	A Tast Procedure	05	23 Driveability Stat	meterr		
	5 Milesce Accumulation Poute	05	24 Adjustable Para	meters		
	6 Emission Warranty Statement	17 attached	26 Fill Pine Specifi	cations	17	
	7 Maint: Cert/Ren'd/Recm'd	06	27 High Altitude Co	omoliance	17	
	8 Emiss Label/Vac Hose Dian	07	28 OBD Sys Incl. M	Arked Revisions		
	9 Evap Coptrol System	08/09	29 I&M Test Proced	lure & Data	17 attached	
1	10 Engine Parameters	Description and cal.	30 50 Degree F Co	mpliance	17	
	11 Fuel System	see sect. 08 and	31 Manufacturer's I	RAF	N/A	
1	12 Ignition System	10 of engine	32 Phase-In Sched	: ORVR Cert Std	N/A	
1	13 Exhaust Control System	family	Full Range Misfi	ire Monitoring	Section 08.21	
1	14 Proj Sales (LDT/MDV Split)	17	LEV CAT Monito	oring 1 x 5 Std	Section 08.21	
1	15 Vehicle Description	10	0.020" Orifica- E	Based Leak Chk	N/A	
1	16 Evap Bench Test Procedure	17	MDV VEC Calc	ulation	N/A	
	17 R/L Temp. NPress. Profile	09	33 NMOG Fleet Av	verage Calculation	17	
1	18 EDV Selection	17	34 AB965 Credits /	Withdrawals	N/A	
	19 Prod Veh same as Test Veh	17	35 EPA Certificate		copy incl. 200LDV	09
2	20 Emission Label Durability	17	36 Equiv. NMOG F	ProcARB Approval	N/A	
E.		Durabitlity	Emission	Emission	Emission	
2	21 Test Vehicle Information	Data Vehicle	Data Vehicle	Data Vehicle	Data Vehicle (Evap)	
	C/O or C/A MY & ID	c/o '98 E 320	'98 E320 (RWD)	'98 E320 (4 WD)	c/o MY 1998	
	Vehicle Log Page(s)	S210E32 - Z 8009	W210E32 - Z 8013	S210E32 - Z 8014	C208E32-Z8012	
			c/o '98 data	new data '99	(
	Zero Mile Book Page(s)	sect. 12	sect. 12	sect. 12	sect. 12	
	Maint Logs & Engr Eval 5					
(Continued on next page					

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Manufacturer Daimler-Benz Exhaust Engine Family: XMBXV03.2GNB Evaporative Family: XMBXE0115NNZ	
P R O J E C T E D E M I S S I O N S (grams / mile. except. grams / lest for D + HS. and grams / gallon for ORVR ^{(1) cy})	
Emission Environ Environ EV APO RATIVE Data Code & Test TW Check One) (Check One) 20°F Hwy City 3-day 2-day Vehicle Id** Displ. Loc. Trans X X NHC X NMHC CO NOX COP Mwy City 3-day 2-day Vehicle Id** Displ. Loc. Trans X R/H X/MOG CO NOX HCHO CO PM NOX 2-day V210E32-28013 3.2 lfr. Mf. L-5 3 875 6.5 22-4/34.6 0.1400 0.1600 0.0056 0.000057 - - 0.0007 -	
S210E32-Z 8014 3.2 lb. Mft. L-5 4 250 9.0 20.5131.4 0.01435 0.122 0.075 0.00144 2.800 - 0.004 422	
S210E32-ZB014 3.2 ltr. Mfr. L-5 4250 9.0 - /	
(1) The Emission Data Vehicle(s) above comply with standards of (@ok): 0.075 3.4 0.2 0.016 10.0 0.3 — … … … … … … … …	
Emission values include deterioration factors (DFs): (with RAF deterioration, if applicable) of (50k) 1.000 1.000 1.558 <th colspa="</td"></th>	
(2) Evaporative DFs are the average of: 3-day D + HS Vehicle DF and 3-day D + HS Bench DF234 R/L Vehicle DF and R/L Bench DF and R/L Bench DF and R/L Bench DF ORVR Bench DF ORVR Bench DF	
(3) List the contiguration with the infinest projected state and $\frac{1}{N}$ HCH 0/ N/HC = 0, 025 . Remarks $\frac{7}{M}$ 0 BD 2, NM0 6/ N/MHC = 1.0 b8 ; HCH 0/ N/HC = 0, 025 .	
Application S. Chen Date 7/21/98 Reviewed by Tan Date 2/23/98 Processed by Tan Date Date 2/23/98	
Date issued: Revised:	