State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-180
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: XMBXV05.0GNB Displacement: 4.3 Liters (260 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 Up 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:

Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	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 Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.020	0.3	0.1	0.0003	3.6
100,000	0.020	0.4	0.1	0.0004	n/a

SUPERSEDED

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).

SUPERSEDED

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.

Raphael Susnowitz

for R. B. Summerfield, Chief
Mobile Source Operations Division

SUPERSEDED

E. O. # A-3-180

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

SUPERSEDED

Manufacturer: Daimler-Benz Exh. Eng Family: XMBXV05.0GNB Evap. Family: XMBXE0115NNZ

All Eng Codes in Eng Fam: CA ___ 49S ___ 50S X AB965 ___ ORVR Yes ___ No X

Exh Std: CA Tier-1 ___ TLEV ___ LEV X ULEV ___ SULEV ___ US EPA ~~Tier-1~~ NLEV

Veh Class(es): PC X LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Fuel Type(s): Dedicated X Flex-Fuel ___ Dual-Fuel ___ Bi-Fuel ___ Gasoline X Diesel ___

CNG ___ LNG ___ LPG ___ M85 ___ Other (specify) ___

Exh. Emiss Test Fuel(s): Indo ___ CBG X CNG ___ LPG ___ M85 ___ Other (specify) ___

Diesel: 13 CCR 2282 ___ 40 CFR 86.113-90 ___ 40 CFR 86.113-94 ___

Evaporative Emission Test Procedure: California ___ Federal X ___

Service Accum: Std AMA X Mod AMA ___ Mfr ADP ___ Other (specify) ___

NMOG Test Procedure: N/A ___ Std X Equiv ___ R/L Test Proc. SHED X Pt Source ___

Engine Configuration: V-8 Displacement: 4.3 Liters 260 Cubic Inches

Valves per Cylinder: 3 Rated HP: 302 @ 5850 / 275 @ 5750 RPM

Engine: Front X Mid ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT ___

Exhaust ECS (eg., MFI, EGR, TC, CAC): SFI / AIR / EGR / 2 HO2S(2) / 2 WU-TWC / 2 TWC

(use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST)	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.
M 113-43-B	C43 AMG	L 5	3750	8.4	A 023 545 69 32	A 112 140 00 60	A 202 490 05 36 or A 202 490 06 36 (underhood) A 202 490 03 36 or A 202 490 04 36 (underfloor)
M113-43-C	CLK 430	L 5	3750	6.4	A 025 545 89 32	A 112 140 00 60	A 208 490 00 14 or A 208 490 01 14 (underhood) A 208 490 02 14 or A 208 490 03 14 (underfloor)

Date Issued:

Revisions:

E. O. # A-3-180

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

(0.228)

SUPERSEDED

Manufacturer: Daimler-Benz Exh. Engine Family: XMBXV05.0GNB Evap Family XMBXE0115NNZ

All Eng Codes in Eng Fam: CA 49S 50S X AB965 ORVR Yes No X

Exh Std: CA Tier-1 TLEV LEV X ULEV SULEV US EPA ~~Tier-1~~ NLEV

Veh Class(es): PC X LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Bi-Fuel Gasoline X Diesel

CNG LNG LPG M85 Other (specify)

Emiss Test Fuel(s): Indo CBG X CNG LPG M85 Other (specify)

Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94

Evaporative Emission Test Procedure: California Federal X

Service Accum: Std AMA X Mod AMA Mfr ADP Other specify)

NMOG Test Procedure: N/A Std X Equiv R/L Test Proc: SHED X Pt Source

Engine Configuration: V-8 Displacement: 4.3 Liters 260 Cubic Inches

Valves per Cylinder: 3 Rated HP: 302 @ 5850 / 275 @ 5750 RPM

Engine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT

Exhaust ECS (eg., MFI, EGR, TC, CAC): SFI / AIR / EGR / 2 HO2S (2) / 2 WU-TWC / 2 TWC

(use abbreviations per SAE J1930 JUN93)

	Sect. / Page #		Sect./ Page #
1 Authorized Representative	01	22 Gen Std, Increase in Emiss, Safety, Meets al Reqmts	16
2 Fuel Specifications	03	23 Driveability Statement	17
3 Test Equipment	04	24 Adjustable Parameters	17
4 Test Procedure	05	25 Tamper Resistance Method(s)	08
5 Mileage Accumulation Route	05	26 Fill Pipe Specifications	17
6 Emission Warranty Statement	17 attached	27 High Altitude Compliance	17
7 Maint: Cert/Req'd/Recm'd	06	28 OBD Sys incl. Marked Revisions	08
8 Emiss Label/Vac Hose Diag	07	29 I&M Test Procedure & Data	17 attached
9 Evap Control System	08 / 09	30 50 Degree F Compliance	17
10 Engine Parameters	Description and cal.	31 Manufacturer's RAF	N/A
11 Fuel System	see sect. 08 and	32 Phase-In Sched: ORVR Cert Std	17
12 Ignition System	10 of engine	Full Range Misfire Monitoring	Section 08.21
13 Exhaust Control System	family	LEV CAT Monitoring -- 1 x 5 Std	Section 08.21
14 Proj Sales (LDT/MDV Split)	17	0.020" Orifice- Based Leak Chk	N/A
15 Vehicle Description	10	MDV VEC Calculation	N/A
16 Evap Bench Test Procedure	17	33 NMOG Fleet Average Calculation	17
17 R/L Temp. / Press. Profile	09	34 AB965 Credits / Withdrawals	N/A
18 EDV Selection	17	35 EPA Certificate	copy incl. 2001 LDV06
19 Prod Veh same as Test Veh	17	36 Equiv. NMOG Proc.-ARB Approval	N/A
20 Emission Label Durability	17		

	Durability Data Vehicle	Emission Data Vehicle	Emission Data Vehicle	Emission Data Vehicle (Evap)
21 Test Vehicle Information C/O or C/A MY & ID	c/o MY 1998	c/o MY 1998	New Vehicle	c/o MY 1998
Vehicle Log Page(s)	W210E43 - Z 8020	W210E43 - Z 8015	R129E50 - Z 9005 new data MY'99	C208E32-Z8012
Zero Mile Book Page(s)	sect. 12	sect. 12	sect. 12	sect. 12
Maint Logs & Engr Eval				

Continued on next page

1999 MODEL-YEAR [illegible]CTIFICATION REVIEW SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

E.O.# A-[illegible]0

SUPERSEDED

Manufacturer: **Daimler-Benz** Exhaust Engine Family: **XMBXV05.0GNB** Evaporative Family: **XMBXE0115NNZ**

PROJECTED EMISSIONS

(grams / mile, except, grams / test for D + HS, and grams / gallon for ORVR (1) (2))

Emission Data Vehicle Id (3)	Engine Code & Displ.	Test Loc.	Trans	(Check One) ___ TW X ETW	(Check One) ___ DPA X RLHP	MPG City/Hwy	(Check One) ___ NMHC X NMOG	CO	NOx	HCHO	20°F CO	PM	Hwy NOx	City CO2	EVAPORATIVE 3-day D+HS	3-day R/L	2-day D+HS	2-day ORVR
W210E43-Z8015	4.3 ltr.	Mfr.	L-5	4 000	7.3	19.1/ 29.8	0.01974	0.319	0.064	0.00020	3.61	—	0.0015	454	—	—	—	—
							0.01974	0.379	0.075	0.00026	—	—	0.0018	—	—	—	—	—
R129E50-Z 9005	5.0 ltr.	Mfr.	L-5	4 500	8.2	17.6 / 28.7	0.01625	0.194	0.056	0.00027	—	—	0.0015	488	—	—	—	—
							0.01625	0.231	0.065	0.000350	—	—	0.0018	—	—	—	—	—
C208E32-Z8012	3.2 ltr.	Mfr.	L-5	3625	5.7	— / —	—	—	—	—	—	—	—	—	—	—	—	—
							—	—	—	—	—	—	—	—	1.58	0.0360	1.31	—

(1) The Emission Data Vehicle(s) above comply with standards of (@50k): 0.075 3.4 0.2 0.015 10.0 — 0.3 — — — — — —

(100k for PC & LDT, 120k for MDV): 0.090 4.2 0.3 0.018 — — 0.4 — 2.0 0.05 2.5 0.20

The NMOG values include Reactivity Adjustment Factor(s) (RAF) of: Not Applicable NMOG 0.94 Methane (CNG or LNG only) —

Emission values include deterioration factors (DFs):

(with RAF deterioration, if applicable) of (50k) 1.000 1.210 1.182 1.412 1.210 — 1.182 — — — — — —

(100k for PC and LDT, 120k for MDV): 1.000 1.439 1.380 1.853 — — 1.380 — 0.34 0.006 0.08 —

~~TLEV~~ / LEV / ~~ULEV / SULEV~~ 50°F emissions (with RAF but without DFs): 0.0471 0.400 0.048 0.00036

~~TLEV~~ / LEV / ~~ULEV / SULEV~~ 50°F standards: 0.150 3.4 0.2 0.030

(2) Evaporative DFs are the average of: 3-day D + HS Vehicle DF — and 3-day D + HS Bench DF 0.34 R/L Vehicle DF — and R/L Bench DF 0.006

2-day D + HS Vehicle DF — and 2-day D + HS Bench DF 0.08 ORVR Vehicle DF — ORVR Bench DF —

(3) List the configuration with the highest projected sales first.

Remarks Full OBD2. NMOG/NMHC = 1.065, HCHO/NMHC = 0.018

Application Processed by S. Chen Date 7/22/98 Reviewed by Steven Yanda Date 7/23/98

Date Issued: Revised:

zoll/50GBNNZ3.pm5-b6

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