State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-154 Relating to Certification of New Motor Vehicles

MERCEDES-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 1996 model-year Mercedes-Benz AG exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: TMB2.2VJGKEK Displacement: 2.2 Liters (134 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

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

Non-Methane Carbo	n Nitrogen	Carbon		
Miles Organic Gas Monoxi		<u>ldehyde</u> <u>Monoxide (20⁰F)</u>		
50,000 0.125 3.4 100,000 0.156 4.2	V. (015 10.0 018 n/a		

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

	Non-Methane	Carbon	Nitrogen	Carbon		
<u> Miles</u>	Organic Gas	Monoxide	<u>Oxides</u>	<u>Formaldehyde</u>	Monoxide (20 ⁰ F)	
50,000 100,000	0.062 0.065	0.3 0.4	0.1 0.2	0.004 0.004	6.3 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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE 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 listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle 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 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.).

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."

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 20th day of September 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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199 6 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Page____

All Eng Codes in Eng Fam: CA	Manufacturer:	Mercedes-Benz	<u> </u>	xh Eng Far	n: <u>TMB2.</u>	2VJGKEK E	vap Fam: TMB10	30AYPA0
Evap Std: 50K_X Useful Life with R/L In-Use Exh Std: Full In Use_X Alt In Use_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 Flex-Fuel Dual-Fuel Bi-Fuel Gasoline Diesel CNG_ LNG_ LPG_ M85_ Other (specify) Emiss Test Fuel(s): Indo_ Ph2_X CNG_ LPG_ M85_ Other (specify) Diesel: 13 CCR 2282_ 40 CFR 86.113-90_ 40 CFR 86.113-94_ Service Accum: Std AMA_X Mod AMA_ Mfr ADP_ Other (specify) NMOG Test Procedure: N/A_ Std_X Equiv_ R/L Test Proc: SHED_ Pt Source_ Hybrid: Type A_ B_ C_, APU Cycle (e.g., Otto, Diesel, Turbine): Engine Configuration: L-4 Displacement: 2.2 / Liters 134 / Cubic Inches Valves per Cylinder: Rated HP: 148 @ 5500 RPM Engine: Front_X Mid_ Rear_ Drive: FWD_ RWD_X 4WD-FT_ 4WD-PT_ Haust ECS (e.g., MFI, EGR, TC, CAC): SFI/AIR/EGR/HO2S(2)/TWC/OBDIL Engine Code Vehicle Models Trans. ETW DPA Ignition EGR Converter Converter etc.) Test Wt. RLHP Part No.								
Evap Std: 50K_X Useful Life with R/L In-Use Exh Std: Full In Use_X Alt In Use_Veh Class(es): PC_X LDT1	Exh Std: CA	Tier-1	LEV <u>x</u>	LEV	ULEV_	ZEV	_; US EPA	Tier-l <u>X</u>
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	Evap Std: 50	OK <u>x</u> Useful l	ife with R	/L II	n-Use Ex	kh Std: Full	In Use <u>x</u> Alt	: In Use
Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4) Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Bi-Fuel Gasoline Diesel CNG LNG LPG M85 Other (specify) Emiss Test Fuel(s): Indo Ph2 CNG LPG M85 Other (specify) Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94 Service Accum: Std AMA Mod AMA Mfr ADP Other (specify) NMOG Test Procedure: N/A Std Equiv R/L Test Proc: SHED Pt Source Hybrid: Type A B C APU Cycle (e.g., Otto, Diesel, Turbine): Engine Configuration: L-4 Displacement: 2.2 / Liters 134 / Cubic Inches Valves per Cylinder: Rated HP: 148 @ 5500 RPM Engine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT (use abbreviations per SAE J1930 SEP91) Engine Code Vehicle Models Trans. ETW DPA Ignition EGR Catalytic (also list (if coded see (M5, A4 or or or (ECM/PCM) System Converter CA/49ST/5OST attachment) etc.) Test Wt. RLHP Part No. Part No. Part No. Millel C220 A4 3500 7.2 0175456132 111 140-00 60 202 490 26 14	Veh Class(es)): PC <u>X</u> LDT	LDT2	MDV:	1 }	ADV2 MDV3	MDV4	_ MDV5
CNG LNG LPG M85 Other (specify)								
Emiss Test Fuel(s): Indo Ph2 X CNG LPG M85 Other (specify) Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94 Service Accum: Std AMA X Mod AMA Mfr ADP Other (specify) NMOG Test Procedure: N/A Std X Equiv R/L Test Proc: SHED Pt Source Hybrid: Type A B C APU Cycle (e.g., Otto, Diesel, Turbine): Engine Configuration: L-4 Displacement: 2.2 / Liters 134 / Cubic Inches Valves per Cylinder: Rated HP: 148 @ 5500 RPM Engine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT (use abbreviations per SAE J1930 SEP91) Engine Code Vehicle Models Trans. ETW DPA Ignition EGR Catalytic (also list (if coded see (M5, A4 or or (ECM/PCM) System Converter CA/49ST/50ST attachment) etc.) Test Wt. RLHP Part No. Part No. Part No. Millel C220 A4 3500 7.2 0175456132 111 140-00 60 202 490 26 14	Fuel Type(s):	: Dedicated <u>×</u>	Flex-Fuel	Dual	-Fuel	Bi-Fuel	Gasoline <u>X</u>	Diesel
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94 Service Accum: Std AMA X		CNG LNG	_ LPG	M85 (Other (:	specify)		
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Hybrid: Type A B C, APU Cycle (e.g., Otto, Diesel, Turbine): Engine Configuration: L-4								
Hybrid: Type A B C, APU Cycle (e.g., Otto, Diesel, Turbine): Engine Configuration: L-4	NMOG Test Pro	ocedure: N/A		Equiv_	!	R/L Test Proc:	SHED Pt	Source
Engine Configuration: L-4 Displacement: 2.2 / Liters 134 / Cubic Inches Valves per Cylinder: Rated HP: 148 @ 5500 RPM Engine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT (use abbreviations per SAE J1930 SEP91) Engine Code (e.g., MFI, EGR, TC, CAC): SFI/AIR/EGR/HO2S(2)/TWC/OBDIL (use abbreviations per SAE J1930 SEP91) Engine Code (if coded see (M5, A4 or or or (ECM/PCM) System Converter CA/49ST/50ST attachment) etc.) Test Wt. RLHP Part No. Part No. Part No. M111-1 C220 A4 3500 7.2 0175456132 111 140-00 60 202 490 26 14	Hybrid: Type	e A B C	, APU Cyc	le (e.g.,	Otto,	Diesel, Turbin	e):	
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