State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-97 Relating to Certification of New Heavy-Duty Motor Vehicle Engines

DAIMLER-BENZ AG

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Daimler-Benz AG 1989 modelyear diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Engine Family	· · · · · · · · · · · · · · · · · · ·	cement blc inches)	Exhaust Emission Control Systems(Special Features)
KDB 5.96 FAF X	5.96	(364)	Engine Modification Smoke Puff Limiter (Diesel Injection - Direct) (Turbocharger) (Intercooler)

Engine models and codes are listed on attachments.

The following are the certification emission values for this engine family:

Engine Family	Hydrocarbons _gm/bhp_hr	Carbon Monoxide gm/bhp_hr	Nitrogen Oxides	Particulates gm/bhp-hr_
KDB 5.96 FAF X	0.5	2.7	5.6	0.4

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines 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 attachments.

Executed at El Monte, California this ______ day of December, 1988.

K. D. Drachand, Chief Mobile Source Division

Page 1

Manufacturer Daimler-Benz	Engine Family KDB5.96	FAF X
	Engine Type L6	
	Liters (CID)5.96 (3	64)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard Fuel System I, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor	AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification OC-Oxidation Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyt	CCY-Combustion Chamber Yalve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler or Aftercoole MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger

CARRYOVER FROM MODEL YEAR 1988

gine:	Front	Mid.	Rear	
Drive:	FWD	RWD	4WD Full Time	4WD Part Time

E.O.#_	<u>A-3</u>	-97
Page	2	

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

	364)	Er	Engine Family		
Control Sys.	and (Special Fe	atures}	EM, SPL (D	ID, TC, IC)
Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/stroke (lbs/Hr)
Bosch PES 6 MW 100/ 720 RS 1120	DLLA 133 S 1103	190/2600	79 83 66.770.1	(<u>lbsft.)</u> 450/1400	84 88
Bosch PES 6 MW 100/ 720 RS 1144	DLLA 133 S 1103	170/2600	72 76 60.8 64.2	413/1600	75.5 79.5 39.2 41.3
					· · · · · · · · · · · · · · · · · · ·
	Fuel Injection Pump Mfr. Part Number Bosch PES 6 MW 100/ 720 RS 1120 Bosch PES 6 MW 100/	Fuel Injection Pump Mfr. Part Number Part	Fuel Injection Pump Mfr. Part Number Injector Mfr. Part Number Part Number Injector Mfr. Part Nu	Fuel Injection Pump Mfr. Part Number Injector Mfr. Part Number Part Number Rated HP at RPM (1bs/Hr) Bosch PES 6 MW 100/720 RS 1120 Bosch PES 6 MW 100/720 RS 1144 DLLA 133 S 1103 170/2600 72 76 60.8 64.2	Injection Pump Mfr. Part Number Injector Mfr. Part Number Part Num

CARRYOVER FROM MODEL YEAR 1988

030186