State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-34
Relating to Certification of New Motor Vehicles

BAYERISCHE MOTOREN WERKE 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1985 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for diesel-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)
FBM2.4D6JAB6	149 (2.4)	Engine Modifications Exhaust Gas Recirculation (Diesel Injection - Prechamber)

Vehicle models, transmissions and engine codes are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile	Particulates Grams per Mile
0.46	8.4	1.0	0.4

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

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile	Particulates Grams per Mile
0.13	0.9	0.8	0.3

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

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).

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 3rd day of December 1984

K. D. Drachand, Chief
Mobile Source Division

Manufacturer BMW

Executive Order No. A-8-34

Engine Family FBM2.4D6JAB6

Evaporative Family not applicable

Engine CID (Liters) (2.4 l) 149

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Exhaust Emission Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TR-Thermal Reactor
TWC-Three Way Catalyst System
EC-Electronic Control for Start of Injection

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
MFI-Mechanical Fuel Injection
TC-Turbocharged

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Caburetor
VV-Variable Venturi
ITCU-Injection Timing Control Unit
IP-Injection Pump
FIN-Fuel Injection Nozzle

Vehicle Model: 524 td

DRIVE SYSTEM: Front engine, rear wheel drive

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

X Passengers Cars ___ Light-Duty Trucks ___ Medium-Duty Vehicles

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___ Gas X Diesel

E.O. No. A-8-34

Manufacturer BMW

Engine Family FBM2.4D6JAB6 CID (liter)-Type 2.4 - inline six cyl.

ECS (Special Features) EGR, DIP, TC, EC

Engine Code	Vehicle Models	Trans.	EGR Valve Part No.	Fuel System Part No.	Label Ident. Part No.
2.4D A4	524td	A4	1 285 112	DIP Injection pump: 2 240 300 Fuel injection nozzle: 1 279 105 1 284 076 Injection timing control unit: 2 240 418	2 121 509

Comments: See page 17 - 20 for abbreviations

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5/15/84	DATE				DATE	NAME	

ENGINEERING EMISSION CONTROL

Section 17.09.00.00 **TEST VEHICLE REQUIREMENTS**

Engine Family	Engine Code	Equiv. Test Weight	Actual Road Load Power*
FBM2.4D6JAB6	2.4D A4	3 500 lbs.	8.6 HP (110%)

* coast down value

E.O. No. A-8-34

8.2A

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