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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-23
Relating to Certification of New Motor Vehicle Engines

MACK TRUCKS, INC.

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 Mack Trucks, Inc. 1978 model-year diesel-powered engines in heavy-duty motor vehicles with manufacturer's gross vehicle weight rating greater than 8500 pounds are certified for the engine family, codes and models described below:

Family	Engine Size (CID)	Type
10	998	V-8 Turbocharged, Aftercooled

Models and Engine Codes as listed in attachment.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

Engine Family	HC + NOx gm/bhp-hr	CO gm/bhp-hr	HC gm/bhp-hr	NOx gm/bhp-hr
10	Not applicable	1	0.2	5.9

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

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 22 day of January, 1979.

G. C. Hass

G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

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Engine Family 10 Engine (CID) 998

Emission Control Systems ASPL* Type 8 cylinder "V"

Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number Nozzle Part#	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Basic Initial Timing
Thermodyne ETAX (B) 1000	American Bosch 313GCA-5133-PIO	American Bosch 114GC39-PIO	400 @ 1900 RPM	221.8 (1)	13° BTDC Fixed
Maxidyne ETAX (B) 1005A	American Bosch 313GCA-5133-P6		392 @ 2100 RPM		

Comments

(1) Cubic millimeters per stroke.
* Acceleration Smoke Puff Limiter

Date of Issue 012279

Abbreviations

Type
NA - Natural Aspiration
TC - Turbocharged

Emission Control Systems
AC - Aftercooler
EGR - Exhaust Gas Recirculation
TD - Throttle Delay