State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-27
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 the following Mack Trucks, Inc. 1980 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacement Cubic Inches	Exhaust Emission Control Systems (Special Features)
10	998	(Acceleration Smoke Puff Limiter) (Intercooled) (Turbocharged)

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Hydrocarbons + Nitrogen Oxides gm/bhp-hr
10	0.2	1	5.9

BE IT FURTHER RESOLVED: That Mack Trucks, Inc. has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Adminstrative 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 attachment.

Executed at El Monte, California this 6th day of December, 1979.

K. D. Drachand, Acting Chief
Mobile Source Control Division

E.O. #A-27-27

1980 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Mack Trucks, Inc. Page 1

Engine Family 10 CID-Type 998 V-8

ECS (Special Features) (Acceleration Smoke Puff Limiter, Turbocharged, Intercooled)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm^3/stroke	Label Ident.
ETCX(B)1000	American Bosch 313GCA 5133-P10	American Bosch 114GC 39-P10	400 @ 1900	177.0	ETCX1000
ETCX(B)1005A (EMC9-400)(1)	American Bosch 313GCA 5133-P6		392 @ 2100	170.4	ETCX1005A (EMC9-400)(1)
EMC9-400R(2)	American Bosch 313GC 5133-P28		400 @ 1700	186.9	EMC9-400R

Date of Issue - (1) New engine model designation-effective 4/3/80.
(2) Addition of engine per request # 1980-10-1.

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