

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-22
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. 1979 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
9	672	Inline six-turbocharged-aftercooled
11	672	Inline six-turbocharged

Engine Models and Codes as listed on attachments.

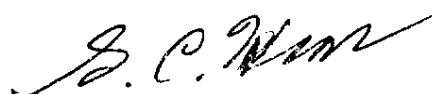
Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following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

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
9	0.8	2	6.0	NA
11	0.5	2	6.9	NA

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 12 day of January, 1979.



G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Mack Truck, Inc. Page 1

Engine Family 9 Engine (CID) 672

Emission Control Systems Acceleration Smoke Puff Type Inline six turbocharged, after-cooled.
Limiters

Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP $\frac{\text{mm}^3}{\text{stroke}}$	Basic Initial Timing
Thermodyne ETAY (B) 673A	Robert Bosch 313GCA 5121-P30 or 313GCA 5121-P22	Robert Bosch 114GC222-P2 or American Bosch 114GC39-P1	315 @ 1900 RPM	186.5	21° BTDC
Maxidyne ETAY (B) 676	American Bosch 313GCA - 5126A-P14 or *American Bosch 313GCA - 5138 - P14	American Bosch 114GC39-P1	283 @ 2100 RPM	173.8	18° BTDC
Maxidyne ETAY (B) 676D	American Bosch 313GCA - 5126A-P		285 @ 1800 RPM	181.5	

Date of Issue - * Added 4/2/79

Abbreviations

Type
 NA - Natural Aspiration
 TC - Turbocharged
 TCA - Turbocharged and Aftercooled

Emission Control Systems

AC - Aftercooler
 EGR - Exhaust Gas Recirculation
 TD - Throttle Delay

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINESManufacturer Mack Trucks, Inc. Page 2Engine Family 11 Engine (CID) 672Emission Control Systems Acceleration Smoke Puff Type Inline six-turbocharged
Limiter

Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Basic Initial Timing
Thermodyne ETY (B) 673 E	Robert Bosch ** 313GCA - 5121 - P24	Robert Bosch 114GC222P2	200 @ 2100 RPM	11.65	18 ⁰ BTDC
Maxidyne ETY (B) 675	Robert Bosch 313GCA - 5121-P22		235 @ 2100 RPM	132.8	16 ⁰ BTDC
Maxidyne ETY (B) 675B	Robert Bosch 313GCA - 5121-P-38		237 @ 1800 RPM	142.5	
ETX (B) 673D*	American Bosch 313GCA - 5110B-P16	114GC39-P11	235 @ 2100 RPM	150.7	12 ⁰ BTDC

Date of Issue -

* Added per running change 1979-11-2 (March 12, 1979).

** Corrected April 11, 1979.

Abbreviations

Type

NA - Natural Aspiration

TC - Turbocharged

TCA - Turbocharged and Aftercooled

Emission Control Systems

AC - Aftercooler

EGR - Exhaust Gas Recirculation

TD - Throttle Delay