

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-289
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

HERCULES ENGINES, 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 Hercules Engines, Inc. 1987 model-year diesel engines have shown compliance with the transient test procedures and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HHE03.7FAAO	226 (3.7)	(Diesel Injection - Direct) (Turbocharger) (Intercooler)

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

<u>Engine Family/GVWR</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
HHE03.7FAAO	0.91	2.7	5.8	0.5


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.

This Executive Order supercedes Executive Order A-42-19 issued to White Engines, Inc. on February 17, 1987.

Executed at El Monte, California this 23rd day of November, 1987.


K. D. Drachand, Chief
Mobile Source Division

E.O.# A-289Page 1198 7 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINESManufacturer Hercules ENGINES, INC. Engine Family HHE03.7FAAOLiter (CID) 3.7 (226) Eng. Type DID, I-4, TAEmission Control Sys. and (Special Features) (Air to Air Charge Air Cooler, TC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm ³ /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm ³ /stroke (lbs/Hr)
DT3.7HT	Robert Bosch 40-3053601	Stanadyne 40-3055260	107 HP @ 2800 RPM	71 (43.4)	255 @ 1800-RPM	83.8 (32.9)

Date of Issue _____ Revisions: