State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-289-1 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. 1988 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating over 8,500 pounds:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
JHE03.7FPA8	03.7FPA8 3.7 (226)		(Smoke Puff Limiter) (Diesel injection - Direct) (Turbocharger) (Intercooler)		

Engine models and codes are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr_	Particulates gm/bhp-hr_
1.3	15.5	6.0	0.60

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

Engine Family	Carbon Hydrocarbons Monoxide gm/bhp-hr gm/bhp-hr		Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr	
JHE03.7FPA8	1.0	2.6	5.2	0.53	

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 and attachment.

Executed at El Monte, California this 14 day of December, 1987.

K. D. Drachand, Chief Mobile Source Division

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufactu	rer <u>Hercule</u>	s Engines, Ir	ic. E	ngine Family	JHE 03.7	FPA8
Liter (CII	0)3.7 (2	26)	Eng	. TypeDID	; I-4;TA	
Emission (Control Sys. a	nd (Special Fea	tures) Air	to air char e puff limi	ge air c	ooler
 		·		- P-11 11M1	T	
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)
DTIHU	Robert Bosc 40-3053602	h Lucas CAV 40-3055262	125 HP @2800 RPM	82.5 (50.4)	291 @1800 R	91.9 PM (36.1)