State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-310
Relating to Certification of New Motor Vehicle Heavy-Duty Engines

FORD MOTOR COMPANY

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 Ford Motor Company 1987 model-year diesel engines have shown compliance with the optional transient test procedure and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
HFM07.8FPB4	474	(7.8)	(Aftercooler) (Turbocharger)

Engine models and codes are listed on attachments.

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

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr
HFM07.8FPB4	1.1	2.2	4.7

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.

Executed at El Monte, California this 3rd day of February, 1986.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-10-310

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Ford Motor Company Page 1

Engine Family HFM07.8FPB4 CID(Liter)-Type 474(7.8L) - I6

ECS and (Special Features) SPL (turbo, ATA aftercooler)

Engine Model	Fuel Injection Pump Mfr. Bosch Part Number -9A543-	Injector Mfr. Bosch Part Number -9F593-	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm^3/stroke	Label Ident.
225C	E5HN-DA	E5HN-BA	225 @ 2600 rpm	111	

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HEAVY-DUTY DIESEL ENGINES

Manufacturer FORD MOTOR COMPANY

Engine Family HFM07.8FPB4

Liter (CID) 7.8L(474)

Eng. Type I6

Emission Control Sys. and (Special Features) SPL (turbo, ATA aftercooler)

(Calibration) Engine Model	Fuel Injection Pump Mfr. Bosch Part Number -9A543-	Injector Mfr. Bosch Part Number -9F593-	Maximum Rated HP at RPM	Fuel Rate mm^3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm^3/stroke (lbs/Hr)
(7-85N-R00) 225C	E5HN-DA	E5HN-BA	225 @ 2600	111	604 @ 1400	117
(7-85N-R01) 225C	E5HN-EE	E5HN-BA	225 @ 2400	112	604 @ 1400	117

Date of Issue _____ Revisions:

msg.052386