

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-339
Relating to Certification of New Heavy-Duty Motor Vehicle 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 1988 model-year diesel engines 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>
JFM07.8FPD2	474 (7.8)	for both engine families: (Diesel Injection - Direct) (Turbocharger) (Intercooler)
JFM07.8FPE3	474 (7.8)	

Engine models and codes are listed on attachments.

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

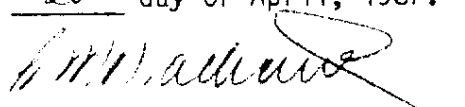
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
JFM07.8FPD2	0.6	1.7	5.9	0.4
JFM07.8FPE3	0.7	2.2	5.4	0.4

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 20th day of April, 1987.


K. D. Drachand, Chief
Mobile Source Division

Manufacturer FORD Engine Family JFM07.8FPD2
 Evaporative Family NA Engine Type FPE3
 Liters (CID) 7.8 (474)

ABBREVIATIONS

Ignition System

- CA-Centrifugal Advance
- ECU-Electronic Control Unit
- EI-Electronic Ignition
- ESAC-Electronic Spark Advance Control
- VA-Vacuum Advance
- VR-Vacuum Retard

Exhaust Emissions Control System

- AIP-Air Injection-Pump
- AIV-Air Injection-Valve
- DBC-Dual Bed Catalyst
- EGR-Exhaust Gas Recirculation
- EIC-Electronic Injection Control
- EM-Engine Modification
- OC-Oxidation Catalyst
- OS-Oxygen Sensor
- HOS-Heated Oxygen Sensor
- SPL-Smoke Puff Limiter or Throttle Delay
- TOC-Trap Oxidizer, Continual
- TOP-Trap Oxidizer, Periodical
- TWC-Three-Way Catalyst
- WUOC-Warm-Up Oxidation Catalyst
- WUTWC-Warm-Up Three-Way Catalyt

Special Features

- CCV-Combustion Chamber Valve
- CFI-Central Fuel Injection or Throttle Body Injection
- ✓ DID-Diesel Injection-Direct
- DIP-Diesel Injection-Prechamber
- EFI-Electronic Fuel Injection
- ✓ IC-Intercooler or Aftercooler
- MFI-Mechanical Fuel Injection
- OBD-On-Board Diagnostics
- ✓ TC-Turbocharger

Fuel System

- CFI, CL, DID, DIP, EFI, MFI
- nV-nVenturi Carburetor

ENGINE
VEHICLE MODELS: SEE PG. 2 & 3

Engine: Front Mid. Rear
 Drive: FWD RWD 4WD Full Time 4WD Part Time

