

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-858

Relating to Certification of New Medium-Duty Motor Vehicles and 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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1999 model-year Ford Motor Company Otto-cycle engines are certified for use in medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) between 8,501 to 14,000 pounds:

Fuel Type: Gasoline

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
XFMXH05.4TB5	5.4 (326)	Dual Heated Oxygen Sensors Exhaust Gas Recirculation Three Way Catalytic Converter Sequential Multiport Fuel Injection

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>
3.9	14.4

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>
0.5	3.6

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicle engines set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

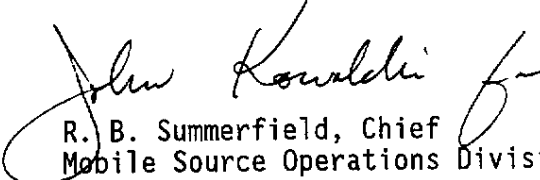
BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed engine models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1 (m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That the listed vehicle models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

Vehicles 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 attachments.

Executed at El Monte, California this 10<sup>th</sup> day of August 1998.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division

**1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
MEDIUM DUTY ENGINES  
(CERTIFIED USING HEAVY-DUTY ENGINE TEST PROCEDURES)**

Manufacturer: Ford Motor Company Engine Family: XFMXH05.4TB5  
 Displacement: 5.4L /          Liter 326 /          Cubic Inches  
 All Eng Codes in Eng Family: CA          49S          50S X  
 Fuel Type(s): Dedicated          Flex Fuel          Dual-Fuel          Bi-Fuel          Gasoline X CNG           
 LNG          LPG          M85          M100          Other (specify)           
 Maximum Rated Power: 235 HP @ 4250 RPM Engine Configuration V8  
 Exhaust Control System and Special Features TWC, 2HO2S, EGR, SFI  
 (Use abbreviations per SAE J1930 SEP91)

Engine Model (Engine Code)	Rated HP @ RPM	Ign. System or PCM	Fuel System Injtr	EGR Valve	Catalyst
		Part No. -12A650-	Part No. -9F593-	Part No. -9D475-	Part No. -5E212-
8-74S-R10	235 @ 4250	F8UF-VC	FOTE-DA	F75E-CA	F7UA-EB
8-74T-R10	235 @ 4250	F8UF-XC	FOTE-DA	F75E-CA	F7UA-EB

Comments:

Engine Family: XFMXH05.4TB5

Issued: **JUL 30 1998**  
 Revised: