

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-768

Relating to Certification of New Medium-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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1997 model-year Ford Motor Company Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 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>
VFM5.4W8G1EK	5.4 (326)	Heated Oxygen Sensor 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>Engine Family</u>	<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>
VFM5.4W8G1EK	0.5	3.4

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 the listed engine models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

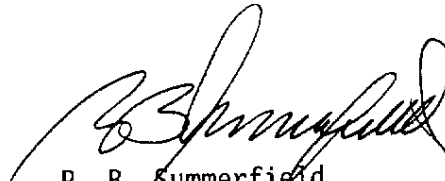
BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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.).

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 attachments.

Executed at El Monte, California this 29th day of July 1996.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

S. Street E.O.# A-10-768

1997 MODEL YEAR CERTIFICATION INCOMPLETE MEDIUM-DUTY VEHICLE ENGINES (CERTIFIED USING HEAVY-DUTY OTTO-CYCLE ENGINE TEST PROCEDURES)

Mfr. FORD MOTOR COMPANY Exhaust Engine Family: VFMS.4W8G1EK (V5.4W)
Engine Config V-8 Valves/Cyl 2 Displ: 5.4 / Liters 326 / CID
Cert Std: Tier-0 Tier-1 X LEV ULEV Eng Intended Service Class: M4 X M5
In-Use Stds: Full In Use Alt In Use X Max Rated Power 235 HP @ 4250 RPM
All Eng Codes in Eng Family: KA 495 505 X
Fuel Type(s): Dedicated X Flex Fuel Dual-Fuel B1-Fuel Gasoline X CNG
LNG LPG M85 M100 Other (specify)
Emiss Test Fuel(s): Indo X CNG LPG M85 M100 Other (specify)
Exhaust ECS (e.g., OC, TWC, MFI, IFI, TC, CAC): HO2S, EGR, SFI, TWC (Use abbreviations per SAE J1930 SEP91)

Table with 6 columns: Engine Model (Engine Code), Rated HP @ RPM, Ign. System or PCM, Fuel System Injector, EGR Valve, Catalyst. Rows include models 7-74S-R08 and 7-88X-R08 with their respective specifications.

Comments: SEE 20.09.17.02.00-2 for evaporative emission family identification.

Engine Family: V5.4W
20.09.17.02 - 1
Issue Date: 7-08-96
Revised: 7-24-96 7-28-96