

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-805

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1999 model-year Ford Motor Company Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 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>
XFMXH06.8CB5	6.8 (417)	Sequential Multiport Fuel Injection Dual Heated Oxygen Sensors Three Way Catalytic Converter Exhaust Gas Recirculation

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>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.9	37.1	4.0

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

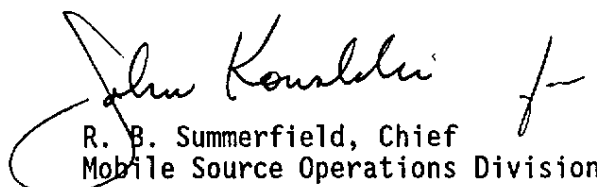
<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
XFMXH06.8CB5	0.1	1.9	0.4

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 23<sup>rd</sup> day of December 1997.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division

1999AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY DUTY OTTO-CYCLE ENGINES

Manufacturer: Ford Motor Company Engine Family: XFMXH06.8CB5  
 Displacement: 6.8L /      Liter 417 /      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: 265 HP @ 4250 RPM Engine Configuration V10  
 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 Part No.	Fuel System Injtr Part No.	EGR Valve Part No.	Catalyst Part No.
		-12A650-	-9F593-	-9D475-	-5E212-
9WAA-AAB	275 @ 4250	XC3F-AVB	XW7E-AB	F75E-CA	F81A-CA
9WAA-AFB	275 @ 4250	XC3F-AZB	XW7E-AB	F75E-CA	F81A-CA
9WAA-AIC	275 @ 4250	XC3F-CFC	XW7E-AB	F75E-CA	F81A-CA
9WAM-AAB	275 @ 4250	XC3F-BHB	XW7E-AB	F75E-CA	F81A-CA

Comments:

Engine Family: XH6.8CB5

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Issued: NOV 07 1997  
Revised:

1999AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY DUTY OTTO-CYCLE ENGINES

Manufacturer: Ford Motor CompanyEngine Family: XFMXH06.8CB5Displacement: 6.8L / Liter 417 / Cubic InchesAll Eng Codes in Eng Family: CA\_\_\_ 49S\_\_\_ 50S\_\_\_ XFuel Type(s): Dedicated\_\_\_ Flex Fuel\_\_\_ Dual-Fuel\_\_\_ Bi-Fuel\_\_\_ Gasoline X CNG\_\_\_  
LNG\_\_\_ LPG\_\_\_ M85\_\_\_ M100\_\_\_ Other (specify)\_\_\_\_\_Maximum Rated Power: 275 HP @ 4250 RPM F-Series Engine Configuration V10Maximum Rated Power: 265 HP @ 4250 RPM E-Series Engine Configuration V10Exhaust 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-
9WAA-AAB	275 @ 4250	XC3F-AVB	XW7E-AB	F75E-CA	F81A-CA
9WAA-AFB	275 @ 4250	XC3F-AZB	XW7E-AB	F75E-CA	F81A-CA
9WAA-AIC	275 @ 4250	XC3F-CFC	XW7E-AB	F75E-CA	F81A-CA
9WAM-AAB	275 @ 4250	XC3F-BHB	XW7E-AB	F75E-CA	F81A-CA
R/C 6.8-7					
9WAA-AFC	275 @ 4250	XC3F-AZC	XW7E-AB	F75E-CA	F81A-CA
8-96J-R05	265 @ 4250	F8UF-ABB	F6VE-AA	F75E-CA	F7US-AB

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Comments:

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Engine Family: XFMXH06.8CB5

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Revised: **JUL 30 1998**