

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-420
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 1990 model-year gasoline engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems</u>
LFM07.5BSB8	7.5 (460)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst Secondary Air Injection Multipoint Electronic Fuel Injection

Engine models and codes are listed on attachments.

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

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>
1.9	37.1	6.0

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

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>
LFM07.5BSB8	0.5	8.8	3.8

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 Code of Regulations, Section 2036 and California Health and Safety Code Section 43205.5).

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 18th day of July, 1989.


K. D. Drachand, Chief
Mobile Source Division

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Engine Family LFM07.5BSB8 (L7.5B)
 Evaporative Family 9HN Engine Type V-8
 Liters (CID) 7.5L (460)

ABBREVIATIONS

<u>Ignition System</u>	<u>Exhaust Emissions Control System</u>	<u>Special Features</u>
CA-Centrifugal Advance	AIP-Air Injection Pump	CFI-Central Fuel Injection or Throttle Body Injection
ECU-Electronic Control Unit	AIV-Air Injection Valve	EPFI-Electronic Port Fuel Injection
EI-Electronic Ignition	EGR-Exhaust Gas Recirculation	MPFI-Mechanical Port Fuel Injection
ESAC-Electronic Spark Advance Control	EIC-Electronic Injection Control (Diesel Only)	SFI-Sequential Injection
VA-Vacuum Advance	EM-Engine Modification	DID-Diesel Injection Direct
VR-Vacuum Retard	SPL-Smoke Puff Limiter or Throttle Delay	DIP-Diesel Injection Prechamber
	TOC-Trap Oxidizer, Continual	TC-Turbocharger
	TOP-Trap Oxidizer, Periodical	SC-Supercharger
	DBC-Dual Bed Catalyst	IC-Intercooler Aftercooler
	OC-Oxidation Catalyst	CCV-Combustion Valve
	TWC-Three-Way Catalyst	OBD-On-Board Diagnostics
	WUOC-Warm-Up Oxidation Catalyst	MIL-Malfunction Indicator Light
	WUTWC-Warm-Up Three-Way Catalyst	
	OS-Oxygen Sensor	
	HOS-Heated Oxygen Sensor	

Fuel System

CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS
 nV-nVenturi Carburetor
 VV-Variable Venturi Carburetor

VEHICLE MODELS: F450

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

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Revised							

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY DUTY ENGINES

E.O. # A-10-420

Manufacturer Ford Motor Company Engine Family LFM07.5BSB8

Liter (CID) 7.5L (460 CID) Eng. Type V-8

Emission Control Sys. (Special Features) EGR/AIP/RDX/HOS/EPFI

Engine Code	Maximum Rated HP at RPM	Rated Torque at RPM	Ign. System (ECU)	Fuel System	EGR Valve	Catalyst
			Part No. -12A650-	Part No. -9F593-	Part No. -9F483-	Part No. -5E212-
897AR10	218 @ 3600	363 @ 1800	E8TF-BLB	E8TE-BC	E7TE-GA	E8TA-LA
998BR00 R/C 7.5-HD-3	"	"	E9TF-SA	"	"	"
097AR10 *	"	"	F0TF-AXA	"	"	"
098BR10 *	"	"	F0TF-AZA	"	"	"

Comments: See page one for abbreviations and evaporative emission family identification.

* Added per 1990 MY R/C 7.5-HD-3.

Date	5-30-89	20.17.02.00-2					
Revised	7-24-89						