State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-542 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 1993 model Otto-cycle engine is 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

Engine Family	Liters (Cubic Inches)	Exhaust Emission Control Systems and Special Features
PFM07.5BSA3	7.5	(460)	Secondary Air Injection Exhaust Gas Recirculation Heated Oxygen Sensor Multiport Fuel Injection Three Way Catalytic Converter

Engine models and codes are listed on attachments.

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

Total	Carbon	Nitrogen	
<u>Hydrocarbons</u>	<u>Monoxide</u>	_Oxides	
1.1	14.4	5.0	

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

Engine Family	Total	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
PFM07.5BSA3	0.2	13.2	4.1

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 20 day

day of January, 1993.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY DUTY ENGINES

Manufacturer Ford Motor Company Engine Family PFM07.5BSA3 (P7.5A)

Engine Code	Rated HP @ RPM	Ign. System or PCME	Fuel System	EGR Valve	Catalyst
		Part No. -12A650-	Part No. -9F593-	Part No. -9F483-	Part No.
3-97A-R00	245 @ 4200	F3TF-DA	F1TE-DA	F3TE-AA	E3TA-F0
3-98A-R00	245 @ 4200	F3TF-KA	FlTE-DA	F3TE-AA	E3TA-F0
3-98E-R00	245 @ 4200	F3TF-JA	F1TE-DA	F3TE-AA	E3TA-F0
3-98F-R00	245 @ 4200	F3TF-FA	F1TE-DA	F3TE-AA	E3TA-FC
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Comments: See 20.09.17.02-1 for abbreviations and 20.09.17.02-4 for evaporative emission family identification.

Engine Family: P7.5A

ssue Date: NOV 3 0 1992

20.09.17.02-2

Revised:

20091702.2

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer <u>Ford Motor</u> Evaporative Family <u>HN</u>		PFM07.5BSA3 (P7.5A) V-8
Braporacive ramity	Liters (CID)	7.5L (460)
ABBREVIATIONS:		
Ignition System	Exhaust Emissions Control System	Fuel System
PCM-Powertrain Control Module	AIRD-Secondary Air Injection ECT-Engine Coolant Temp Sensor EGR-Exhaust Gas Recirculation EM-Engine Modification HO2S-Heated Oxygen Sensor KS-Knock Sensor MAP-Manifold Absolute Pressure Sensor OC-Oxidation Catalyst O2S-Oxygen Sensor	DFI-Direct Fuel Injection (Diesel) EIC-Electronic Injection Control (Diesel) CAC-Charged Air Intercoole or Aftercooler IFI-Indirect Diesel Fuel Injection MPI-Multipoint Electronic Fuel Injection
Special Features	TAB-Secondary Air Inj. Bypass	SC-Supercharged
MIL-Malfunction Indicator Lamp OBD-On Board Diagnostics	TAD-Secondary Air Inj. Diverter SPL-Smoke Puff Limiter TOC-Trap Oxidizer: Continuous TOP-Trap Oxidizer: Periodic TPS-Throttle Position Sensor TWC-Three Way Catalyst TWC+OC-Three Way Catalyst Plus Oxidation Catalyst WU-OC-Warm Up Oxidation Catalyst WU-TWC-Warm Up Three Way Catalyst	SFI-Sequential Multipoint Electronic Fuel Injection TAA-Turbocharged, Air to Air (Diesel) TAW-Turbocharged, Air to Air to Water (Diesel) TBI-Throttle Body Electronic Fuel Injection
<u>VEHICLE MODELS:</u> E250/E 350 F250/F 350		
Engine: Front XXX Mid Drive: FWD RWD XXX 4WD	Rear Full Time 4WD Part Time	

Engine Family: P7.5A

Issue Date: NOV 3 0 1992

20.09.17.02-1

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