State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-480 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 1991 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Engine Family	Displacement <u>Liters (Cubic Inches)</u>	Exhaust Emission Control Systems (Special Features)		
MFM07.8FPK8	7.8/6.6 (474/401)	(Turbocharger) (Charge Air Cooler)		

Engine models and codes are listed on attachments.

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

Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	5.0	0.25

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

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
MFM07.8FPK8	0.3	1.8	4.8	0.22

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 (Health and Safety Code Section 43205.5 and Title 13, California Code of Regulations, Section 2036).

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 6 day of December, 1990.

R. B. Summerfie 18

Assistant Division Chief Mobile Source Division

E.O.# A-10-480

1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company		Engine Family		MFM07.8FPK8 (L7.8PK8)
Evaporative Family Not	Applicable	Engine	Туре	<u> </u>
		Liters	(CID)	6,6L (401), 7,8L (474)
ABBREVIATIONS:				
Ignition System	Exhaust Emission	s Contro	ol System	n Fuel System
DLI-Distributorless Ignition EI-Electronic Ignition PCME-Powertrain Control Module Special Features MIL-Malfunction Indicator Light OBD-On Board Diagnostics	AIR-Secondary ECTS-Engine Coo EGR-Exhaust Ga EM-Engine Mod HO2S-Heated Oxy KS-Knock Sens MAP-Manifold A Pressure S OC-Oxidation O2S-Oxygen Sen SABV-Secondary SASV-Secondary SPL-Smoke Puff TOC-Trap Oxidi TOP-Trap Oxidi TOP-Trap Oxidi TPS-Throttle P TWC-Three Way Plus Oxida WUOC-Warm Up Ox WUTWC-Warm Up Th	lant Tens Recirco ification gen Sensor bsolute ensor Catalyst sor Air Bypa Air Swit Limiter zer: Corzer: Per catalyst Catalyst tion Cation Cat	ass Valve tching Validation sor	EIC-Electronic Injection Control (Diesel) IC-Intercooler or Aftercooler IDI-Indirect Diesel Injection MPI-Multipoint Electronic Fuel Injection SC-Supercharged alve SMPI-Sequential Multipoint Electronic Fuel Injection TAA-Turbocharged, Air to Air (Diesel) TAW-Turbocharged, Air to Air to Water (Diesel) TBI-Throttle Body

<u>VEHICLE MODELS:</u> Reference page 20.17.02.00-2.

Engine Family: M7.8PK8

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	Revised			

E.O.	##	A-10-480

1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer Ford Moto	or Company	Engine Family	MFM07.8FPK8 (M7.8PK8)
Liter (CID)7.81 (474	4 CID), 6.6L (401 CID)	Eng. Type	16
Emission Control Sys (Special Features) <u>DID.</u>	TC, IC	

Engine Code	Fuel Injection Pump Mfr. P/N (-9A543-)	Fuel Injector Mfr. P/N (-9F593-)	Rated HP at RPM	Fuel Rate at Rated HP (cmm/stroke)	Particulate Trap/Catalyst Mfr. P/N
1-80J-R00	FOHN-GA	E9HN - EB	165 @ 2550	88	N/A
1-80B-R00	E9HN-EB	E9HN-EB	170 @ 2600	88	N/A
1-80A-R00	E9HN-SA	E9HN-EB	185 @ 2400	97	N/A
1-85H-R00	E9HN-KA	FOHN-AA	190 @ 2300	106	N/A
1-85G-R00	E9HN-LA	FOHN-BA	210 @ 2300	114	N/A
1-85F-R00	E9HN-PA	FOHN-BA	215 @ 2000	124	N/A
1-85E-R00	E9HN-NA	FOHN-BA	225 @ 2300	122	N/A
1-85D-R00	E9HN-MA	FOHN-CA	240 @ 2300	129	N/A
1-85C-R00	E9HN-TA	FOHN-DA	270 @ 2300	144	N/A
1-85C-R10	E9HN-TA	FOHN-DA	270 @ 2300	144	N/A

Engine Family: M7.8PK8

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