

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-470  
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 diesel 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 (Special Features)</u>
LFM07.8FPK9	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 these engine families:

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
1.3	15.5	6.0	0.60

The following are the certification emission values for these engine families:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
LFM07.8FPK9	0.5	1.9	5.1	0.30

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 26<sup>th</sup> day of September, 1990.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINESManufacturer Ford Motor Company Engine Family LFM07.8FPK9Liter (CID) 7.8L (474 CID), 6.6L (401 CID) Eng. Type I6Emission Control Sys. (Special Features) (TC, CAC)

Engine Code	Fuel Injection Pump (9A543) (mfr/PN)	Fuel Injector (9F593) (mfr/PN)	Maximum Rated HP at RPM	Fuel Flow @ Rated HP (cmm/stroke)	Maximum Rated Torque at RPM	Fuel Flow @ Max Torque Speed (cmm/stroke)
0-80B-R00	E9HN-RA	E9HN-EB	170 @ 2600	88	412 @ 1700	86
0-80A-R00	E9HN-SA	E9HN-EB	185 @ 2400	97	474 @ 1500	101
0-85H-R00	E9HN-KA	E9HN-BA	190 @ 2300	106	520 @ 1500	110
0-85G-R00	E9HN-LA	E9HN-CA	210 @ 2300	114	600 @ 1500	127
0-85F-R00	E9HN-PA	E9HN-CA	215 @ 2000	124	740 @ 1500	150
0-85E-R00	E9HN-NA	E9HN-CA	225 @ 2300	122	605 @ 1500	128
0-85D-R00	E9HN-MA	E9HN-DA	240 @ 2300	129	660 @ 1500	134
0-85C-R00	E9HN-TA	E9HN-HA	270 @ 2300	144	740 @ 1500	149

Engine Family: L7.8PK9

20.17.02.00-2

Date of Issue: 8-20-90  
Revisions:

2017022