State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-549 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 1994 modelyear Otto-cycle engine is certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Gasoline

Engine Family	<u>Liters (</u>	Cubic Inches)	Exhaust Emission Control Systems and Special Features
RFM7.OD8GARA	7.0	(429)	Secondary Air Injection Exhaust Gas Recirculation Heated Oxygen Sensor Multiport Fuel Injection

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
Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>
1.9	37.1	5.0

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

Engine Family	Total	Carbon	Nitrogen
	Hydrocarbons	<u>Monoxide</u>	Oxides
RFM7.0D8GARA	1.2	21.5	4.4

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

R. B. Summerfield

Assistant Division Chief Mobile Source Division

1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET **HEAVY DUTY OTTO-CYCLE ENGINES**

Manufacturer Ford Motor Company Engine Family RFM7.0D8GARA (R7.0A)								
Liters (CID): 7.0L (429) Fuel Type: Gasoline Engine Type: V-8								
Exhaust ECS & S	pecial Features (Use abbrevia	(ECM/PCM, CA ations per SAE .	RB, MPI, etc.) J1930 JUN88)	AIR/EGR/HO2	S/MPI .			
Engine Model (Engine Code)	Rated HP @ RPM	lgn. System or PCM	Fuel System Injtr	EGR Valve	Catalyst			
(2.13.110 2020)		Part No. -12A650-	Part No. -9F593-	Part No. -9F483-	Part No. -5E212-			
1-87H-R05	235 @ 3600 230 @ 3500	F1TA-GA	F0TE-DA	E7TE-GA alt: F2TE-FA alt: F3TE-FA				
1-88H-R05	235 @ 3600	F1TF-HA	•	•	•			
3-87B-R00	216 @ 3200	F3TF-GA	•	•	•			
3-88B-R00	216 @ 3200	F3TF-HA			•			

Comments: See 20.17.02.00-1 for abbreviations and 20.17.02.00-4 for evaporative emission family identification.

Engine Family: R7.0A

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E.O.# A-10-549

1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Ford Motor Company

Engine Family: RFM7.0D8GARA (R7.0A)

Evaporative Family: None

Engine Type: V-8

Liters (CID): 7.0L (429)

ABBREVIATIONS:

Ignition System Exhaust Emissions Control-System

DLI-Distributorless AIR-Secondary Air Injection

Ignition ECTS-Engine Coolant Temp Sensor EI-Electronic Ignition EGR-Exhaust Gas Recirculation

PCM-Powertrain Control EM-Engine Modification

Module HO2S-Heated Oxygen Sensor

KS-Knock Sensor
MAP-Manifold Absolute
Pressure Sensor
OC-Oxidation Catalyst
O2S-Oxygen Sensor

Special Features SABV-Secondary Air Bypass Valve

SASV-Secondary Air Switching Valve

MIL-Malfunction SPL-Smoke Puff Limiter

Indicator Light TOC-Trap Oxidizer: Continuous OBD-On Board TOP-Trap Oxidizer: Periodic

BD-On Board TOP-Trap Oxidizer: Periodic TPS-Throttle Position Sensor TWC-Three Way Catalyst TWC+OC-Three Way Catalyst

Plus Oxidation Catalyst
WUOC-Warm Up Oxidation Catalyst
WUTWC-Warm Up Three Way Catalyst

Injection CARB- Carburetted Fuel System

DI-Direct Injection (Diesel)

EIC-Electronic Injection Control (Diesel)

IC-Intercooler or Aftercooler IDI-Indirect Diesel Injection

MPI-Multipoint Electronic Po >

Fuel Injection
SC-Supercharged
SMPI-Sequential
Multipoint
Electronic Fuel
Injection
TAA-Turbocharged,
Air to Air (Diesel)

TAW-Turbocharged, Air to Air to Water (Diesel)

TBI-Throttle Body Electronic Fuel

VEHICLE MODELS: KF600 & KF700, over 14,000 GVWR

Engine: Front XXX Mid __ Rear _

Drive: FWD __RWD XXX 4WD Full Time __ 4WD Part Time __

Engine Family: R7.0A

20.09.17.02-2

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