State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-581
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1994 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: RFM4.6V8GAFA Displacement: 4.6 Liters (280 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Dual Three Way Catalytic Converters (Two)
Dual Heated Oxygen Sensors
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

| Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides |
|---|---|---|---|
| 50,000 | 0.25 | 3.4 | 0.4 |
| 100,000 | 0.31 | 4.2 | n/a |

The certification exhaust emission values for this engine family in grams per mile are:

| Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides |
|---|---|---|---|
| 50,000 | 0.10 | 0.9 | 0.2 |
| 100,000 | 0.13 | 1.3 | n/a |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That on January 14, 1993, the Air Resources Board approved the repeal of the currently-effective requirement that each manufacturer certify a minimum of 80 percent of its projected sales of 1994 model-year California-certified passenger cars and light-duty trucks to the phase-in standards for non-methane hydrocarbons (NMHC), or the more stringent standards in section 1960.1(g)(2) of Title 13, California Code of Regulations. If the repeal of such requirement does not become effective by December 31, 1993, the manufacturer shall submit a plan for compliance with the requirement; passenger cars and light-duty trucks not meeting such phase-in or more stringent standards shall be certified only to the extent allowed under the requirement.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves 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.).

Vehicles 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 attachment.

Executed at El Monte, California this 13th day of October, 1993.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-10-581

# 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer FORD MOTOR COMPANY Eng. Family RFM4.6V8GAFA

Pass Cars X Lt-Duty Trucks___ Med-Duty Vehicles___ Fuel Type UNLEADED

Eng. Type V-8 Liter (CID) 4.6 (280) Evap. Family RFM1045AYP0A

Emission Control System & Special Features 2TWC(2)/2HO2S/EGR/SFI
(Use abbreviations per SAE J1930 June88)

Engine: Front X Mid.___ Rear___ Drive: FWD___ RWD X 4WD-FT___ 4WD-PT___

| Eng. Code/ (Cert Std.) | Veh. Models (If Coded see Attachmt.) | Trans. Type: A-Auto M-Man. | ETW | RLHP | Ign. Sys. (PCME/PROM) Part No. -12A650- | EGR Syst. Part No -9D475- | Catalyst Part No. -5E212- -5E214- |
|---|---|---|---|---|---|---|---|
| 418QR00A | LINCOLN VFC | A | 4250 | 8.6[1] | F4VF-FA | F1AE-AD | F4AC-GB<br>F4AC-GB |
| | | | | 9.2[2] | F4VF-FA | F1AE-AD | F4AC-GB<br>F4AC-GB |
| 418SR00A | LINCOLN VFC | A | 4250 | 8.6[1] | F4VF-HA | F1AE-AD | F4AC-GB<br>F4AC-GB |
| | | | | 9.2[3] | F4VF-HA | F1AE-AD | F4AC-GB<br>F4AC-GB |

[1] with P215/70R15 tires
[2] with P225/70R15
[3] with P225/70R15 or P225/75R15 tires

**Certification Standards**

| | 50K | 100K |
|---|---|---|
| NMHC: | 0.25 | 0.31 |
| CO: | 3.40 | 4.20 |
| NOx: | 0.40 | |
| EVAP: | 2.0 | |

**Idle HC/CO Standards**

| | |
|---|---|
| Idle HC | 220 ppm @ 2500 rpm |
| | 100 ppm @ idle |
| Idle CO | 1.2% @ 2500 rpm |
| | 1.0% @ idle |

ENGINE FAMILY: RFM4.6V8G1EA
ISSUED: 9/22/93
REVISED:

E.O.# A-10-581

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|---|---|---|---|---|---|---|---|
| 418QR00A | LINCOLN VFC | A | 4250 | 8.6[1] | F4VF-FA | F1AE-AD | F4AC-GB |
| | | | | | F4VF-FB | | F4AC-GB |
| | | | | 9.2[2] | F4VF-FA | F1AE-AD | F4AC-GB |
| | | | | | F4VF-FB | | F4AC-GB |
| 418SR00A | LINCOLN VFC | A | 4250 | 8.6[1] | F4VF-HA | F1AE-AD | F4AC-GB |
| | | | | | F4VF-HB | | F4AC-GB |
| | | | | 9.2[3] | F4VF-HA | F1AE-AD | F4AC-GB |
| | | | | | F4VF-HB | | F4AC-GB |

[1] with P215/70R15 tires
[2] with P225/70R15
[3] with P225/70R15 or P225/75R15 tires

Certification Standards

| | 50K | 100K |
|---|---|---|
| NMHC: | 0.25 | 0.31 |
| CO: | 3.40 | 4.20 |
| NOx: | 0.40 | |
| EVAP: | 2.0 | |

Idle HC/CO Standards

| | |
|---|---|
| Idle HC | 220 ppm @ 2500 rpm |
| | 100 ppm @ idle |
| Idle CO | 1.2% @ 2500 rpm |
| | 1.0% @ idle |

E.O.# A-10-581

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(Use abbreviations per SAE J1930 June88)

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|---|---|---|---|---|---|---|---|
| 418SR00A | LINCOLN VFL5 | A | 5500* | 10.4 | F4VF-HA<br>F4VF-HB | F1AE-AD | F4AC-GB<br>F4AC-GB |
| 418SR00A | LINCOLN VFL4 | A | 5500 | 10.4 | F4VF-HA<br>F4VF-HB | F1AE-AD | F4AC-GB<br>F4AC-GB |
| 418SR00A | LINCOLN VFL3 | A | 5250 | 10.6 | F4VF-HA<br>F4VF-HB | F1AE-AD | F4AC-GB<br>F4AC-GB |
| 418SR00A | LINCOLN VFL2 | A | 4750 | 10.6 | F4VF-HA<br>F4VF-HB | F1AE-AD | F4AC-GB<br>F4AC-GB |

Certification Standards

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|---|---|---|---|---|---|---|---|
| 418QR00A | LINCOLN VFC | A | 4250 | 8.6[1] | F4VF-FA<br>F4VF-FB | F1AE-AD | -5E212-<br>F4AC-GB<br>F4AC-GC<br>F4AC-GD<br>F4AC-GE<br><br>-5E214-<br>F4AC-GB<br>F4AC-GC |
| | | | | 9.2[2] | F4VF-FA<br>F4VF-FB | F1AE-AD | " |
| 418SR00A | LINCOLN VFC | A | 4250 | 8.6[1] | F4VF-HA<br>F4VF-HB | F1AE-AD | " |
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| 418SR00A | LINCOLN VFL4 | A | 5500 | 10.4 | F4VF-HA<br>F4VF-HB | F1AE-AD | " |
| 418SR00A | LINCOLN VFL3 | A | 5250 | 10.6 | F4VF-HA<br>F4VF-HB | F1AE-AD | " |
| 418SR00A | LINCOLN VFL2 | A | 4750 | 10.6 | F4VF-HA<br>F4VF-HB | F1AE-AD | " |

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