State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-838
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Ford Motor Company exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type (Certification Fuel): Gasoline (Indolene)

Engine Family: XFMXT04.02DN Displacement: 4.0 Liters (244 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

| Loaded Vehicle Weight (lbs.) | Miles | NMOG | CO | NOx | HCHO | CO (20°F) |
|---|---|---|---|---|---|---|
| 3751-5750 | 50,000 | 0.160 | 4.4 | 0.7 | 0.018 | 12.5 |
| | 100,000 | 0.200 | 5.5 | 0.9 | 0.023 | n/a |

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

| Loaded Vehicle Weight (lbs.) | Miles | NMOG | CO | NOx | HCHO | CO (20°F) |
|---|---|---|---|---|---|---|
| 3751-5750 | 50,000 | 0.056 | 1.8 | 0.1 | 0.001 | 5.0 |
| | 100,000 | 0.066 | 2.3 | 0.2 | 0.001 | n/a |

SUPERSEDED

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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 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 NMOG fleet average 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 the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

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 and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 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.).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 15th day of July 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division

SUPERSEDED

E.O.# A-10-838

# 1999 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS



Mfgr. FORD MOTOR COMPANY Exh Eng Fam: XFMXT04.02DN Evap Fam: XFMXE0105BBE

All Engine Codes in Engine Family: CA X 49S___ 50S___ AB965___ ORVR: Yes___ No X

Exh Std: CA Tier-1___ , TLEV X ,LEV___ , ULEV___ , SULEV___ , EPA TIER-1___

Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)

Fuel Type(s): Dedicated X Flex Fuel___ Dual-Fuel___ Bi-Fuel___
Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___

Exh Emiss Test Fuel(s): Indo X CBG___ CNG___ LPG___ M85___ Other (specify)___
Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___

Evaporative Emission Test Procedure: California___ Federal X

Service Accumulation: Std AMA___ Mod AMA___ Mfr. ADP X Other (Specify)___

NMOG Test Procedure: N/A___ Std X Equiv___ R/L Test Procedure: SHED___ Pt Source X

Engine Configuration: V-6 Displacement: 4.0L (244) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 160 @ 4200 RPM
Engine: Front X Mid___ Rear___ Drive: FWD___ RWD X 4WD-FT___ 4WD-PT X

Exhaust Control System and Special Features: 2TWC, TWC(2), 2HO2S(2), SFI, EGR
(Use abbreviations per SAE J1930 JUN93)

| Engine Code (also list CA/49ST/50ST | Vehicle Models (if coded see attachment) | Trans. Type A4-Automatic M5-Manual | ETW or Test Wt | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic Converter Part No. |
|---|---|---|---|---|---|---|---|
| 9LTMBBA A/N | | M5 | | | XL5F-ALA | F87E-AA | XL54-5F250-BO (CC-RH/LH) XL54-5E212-DO (UB) |
| | MAZDA 4x2 SCS 2DR | " | 3750 | 11.3/12.4* | " | " | " |
| | MAZDA 4x2 SCS 4DR | " | 3875 | " | " | " | " |
| | MAZDA 4x4 RCS | " | 3875 | 13.0/14.3* | " | " | " |
| | MAZDA 4x4 SCS 2DR | " | 4000 | " | " | " | " |
| | MAZDA 4x4 SCS 4DR | " | 4250 | " | " | " | " |
| | RANGER 4x2 SCS 2DR | " | 3750/3875 | 11.3/12.4* | " | " | " |
| | RANGER 4x2 SCS 4DR | " | 3875 | " | " | " | " |
| | RANGER 4x4 RCS | " | 3875 | 13.0/14.3* | " | " | " |
| | RANGER 4x4 RCL | " | 3875/4000 | " | " | " | " |
| | RANGER 4x4 SCS 2DR | " | 4000 | " | " | " | " |
| | RANGER 4x4 SCS 4DR | " | 4250 | " | " | " | " |
| | MODELS BELOW EQUIPPED WITH P245/75R16 TIRES | | | | | | |
| | MAZDA 4x4 RCS | " | 3875 | 12.3/13.5* | " | " | " |
| | MAZDA 4x4 SCS 2DR | " | 4000 | " | " | " | " |
| | MAZDA 4x4 SCS 4DR | " | 4250 | " | " | " | " |
| | RANGER 4x4 RCS | " | 3875 | " | " | " | " |
| | RANGER 4x4 RCL | " | 3875/4000 | " | " | " | " |
| | RANGER 4x4 SCS 2DR | " | 4000 | " | " | " | " |
| | RANGER 4x4 SCS 4DR | " | 4250 | " | " | " | " |

* WITH A/C



Engine Family: XFMXT04.02DN
Issue Date:
Revised: JUN 0 6 1998

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