

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-815  
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 passenger cars:

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

Fuel Type: Fuel Flexible (E85 Ethanol, Gasoline)

Certification Fuel: E85 Ethanol, Indolene

Engine Family: XFMXV03.0VDC Displacement: 3.0 Liters (182 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

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

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

The TLEV certification exhaust emission standards for this engine family in grams per mile are: (The standards in parentheses are for gasoline.)

<u>Miles</u>	<u>Non-Methane Organic Gases</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.125 (0.25)	3.4 (3.4)	0.4 (0.4)	0.015 (0.015)	10.0 (10.0)
100,000	0.156 (0.31)	4.2 (4.2)	0.6 (0.6)	0.018 (0.018)	n/a

Reactivity Adjustment Factor for NMOG Mass Emission (E85 Ethanol Fuel): 0.88

Reactivity Adjustment Factor for NMOG Mass Emission (Gasoline): 1.00

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of the above-mentioned reactivity adjustment factors for 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are: (The values in parentheses are for gasoline.)

<u>Miles</u>	<u>Non-Methane Organic Gases</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.089 (0.07)	1.2 (1.1)	0.1 (0.1)	0.001 (0.001)	2.8 (2.8)
100,000	0.091 (0.09)	1.9 (1.6)	0.1 (0.1)	0.001 (0.001)	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 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 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 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).

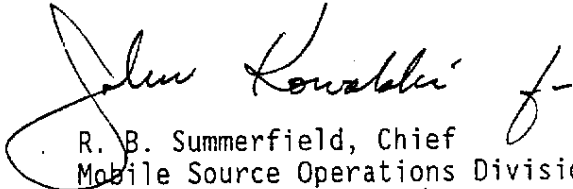
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned 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 10<sup>th</sup> day of August 1998.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Exh. Eng. Fam.: XFMXV03.0VDC Evap. Fam.: XFMXE0230FAE

Engine Code Types: CA 49S 50S XXX AB965 ORVR: Yes    No XXX

Exhaust Std: CA Tier-1    TLEV XXX LEV ULEV ULEV SULEV U.S. EPA TIER-1 X

Vehicle Class(es): PC X LDT1 LDT2 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    Flex-Fuel XXX Dual-Fuel    Bi-Fuel    Gasoline XXX Diesel   

CNG    LNG    LPG    M85    Other (specify): E-85

Exh Emiss Test Fuel(s): Indo XXX CBG    CNG    LPG    E85 XXX Other(specify):   

Diesel    13 CCR 2282    40 CFR 86.113-90    40 CFR 86.113-94   

Evaporative Emission Test Procedure: California XXX Federal   

Service Accum: Std AMA    Mod AMA    Mfr ADP X Other (specify)   

NMOG Test Procedure: N/A    Std XXX Equiv    R/L Test Procedure: SHED    Pt.Source XXX

Engine Configuration V-6 Displacement: 3.0L Liters 182 Cubic Inches

Valves/Cyl: 2 Rated HP: 145 @ 5000 Gasoline/150 @ 5200 Ethanol RPM

Engine: Front XXX Mid    Rear    Drive: Fwd XXX RWD    4WD-FT    4WD-PT   

Exhaust ECS (e.g., MFI, EGR, TC, CAC): 2TWC(2), 2HO2S, EGR, SFI, Air  
(Use abbreviations per SAE J1930 JUN93)

EngineCode (California)	Vehicle Models	Trans.			Ignition Part No (PCM)	EGR System Part No.	Catalytic Converter Part No
		A-Auto M-Man	ETW	DPA			
9LAAACAA	Taurus Sedan Ethanol FFV	A4	3625	6.4	XF1F-EA	XF1E-CA F7DE-BA	F8DC-DE