

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-763
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 Ford Motor Company 1998 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: WFMXT03.0AAA Displacement: 3.0 Liters (183 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

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

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

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

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
3751-5750	50,000	0.100	4.4	0.4	0.018	12.5
	100,000	0.130	5.5	0.5	0.023	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for NMOG reflect application of a 0.94 RAF for 1998 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
3751-5750	50,000	0.075	0.7	0.1	0.002	4.8
	100,000	0.080	0.8	0.2	0.002	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is verifying 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 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").

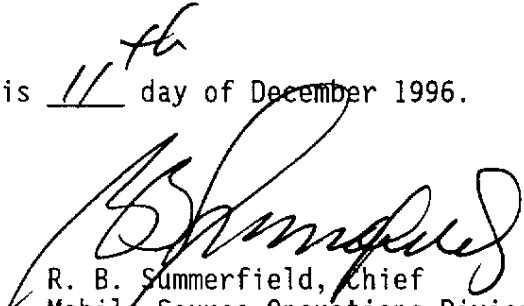
BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the 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."

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 11th day of December 1996.


R. B. Summerfield, Chief
Mobile Source Operations Division

1997 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

E.O.# A-10-763

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXT03.0AAA (W3.0WINC)
 Engine Code Types: CA X 49S ___ 50S ___ Evap Emissions Family: WFMCE0140B1E
 Exh Std: Tier-0 ___ Tier-1 ___ TLEV LEV X ULEV ___ ZEV ___ EPA TIER-0 ___ TIER-1 ___
 Evap Std: 50K ___ Useful Life with R/L X In-Use Exh Std: Full In Use X Alt In Use ___
 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)
 Exh Cert Fuel(s): Indo ___ Ph2 X Diesel: 13 CCR 2282 ___ or 40CFR 86.113-90 ___ or -94 ___
 M85 ___ CNG ___ LPG ___ Other (specify) ___
 Fuel Type(s): Dedicated ___ Flex Fuel ___ Dual-Fuel ___
Gasoline X Diesel ___ M85 ___ CNG ___ LPG ___ Other (specify) ___
 Hybrid: Type A ___ B ___ C ___ APU Cycle (eg., Otto, Diesel, Turbine) ___
 Engine Config V-Block Displacement: 3.0L Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 150 @ 5000 RPM
 Engine: Front X Mid ___ Rear ___ Drive: FWD X RWD ___ 4WD-FT ___ 4WD-PT ___
 Exhaust Control System and Special Features 2TWC, 2HO2S, EGR, SFI,

(Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
856PR00N	Windstar Van 2WD	A(DL)	3875	10.3*	F78F-FA	F87E-CA	F68A-ARA
856PR00A	Windstar Van 2WD	A(DL)	3875	11.3*			
856PR00N	Windstar CW 2WD	A(DL)	4000	9.7			
856PR00N	Windstar CW 2WD	A(DL)	4000	10.3*			
856PR00A	Windstar CW 2WD	A(DL)	4000	10.7			
856PR00A	Windstar CW 2WD	A(DL)	4000	11.3*			
R/C 3.0-103							
856PR06N	Windstar Van 2WD	A(DL)	3875	10.3*	F58F-FD	F87E-CA	F68A-ARA
856PR06A	Windstar Van 2WD	A(DL)	3875	11.3*			
856PR06N	Windstar CW 2WD	A(DL)	4000	9.7			
856PR06N	Windstar CW 2WD	A(DL)	4000	10.3*			
856PR06A	Windstar CW 2WD	A(DL)	4000	10.7			
856PR06A	Windstar CW 2WD	A(DL)	4000	11.3*			
R/C 3.0-105							
856PR10N	Windstar Van 2WD	A(DL)	3875	10.3*	F58F-FE	F87E-CA	F68A-ARA
856PR10A	Windstar Van 2WD	A(DL)	3875	11.3*			
856PR10N	Windstar CW 2WD	A(DL)	4000	9.7			
856PR10N	Windstar CW 2WD	A(DL)	4000	10.3*			
856PR10A	Windstar CW 2WD	A(DL)	4000	10.7			
856PR10A	Windstar CW 2WD	A(DL)	4000	11.3*			

* Equipped with P215/70R15 tires.

Engine Family: W3.0WINC

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Issue Date: 11-13-96

Revised: 12-19-96 12-19-96

1997 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

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Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXT03.0AAA (W3.0WINC)
 Engine Code Types: CA X 49S ___ 50S ___ Evap Emissions Family: WFMXE0140B1E
 Exh Std: Tier-0 ___ Tier-1 ___ TLEV ___ LEV X ULEV ___ ZEV ___ EPA TIER-0 ___ TIER-1 ___
 Evap Std: 50K ___ Useful Life with R/L X In-Use Exh Std: Full In Use ___ Alt In Use X
 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)
 Exh Cert Fuel(s): Indo ___ Ph2 X Diesel: 13 CCR 2282 ___ or 40CFR 86.113-90 ___ or -94 ___
 M85 ___ CNG ___ LPG ___ Other (specify) ___
 Fuel Type(s): Dedicated X Flex Fuel ___ Dual-Fuel ___
Gasoline X Diesel ___ M85 ___ CNG ___ LPG ___ Other (specify) ___
 Hybrid: Type A ___ B ___ C ___ APU Cycle (eg., Otto, Diesel, Turbine) ___
 Engine Config V-6 Displacement: 3.0L Liters (Cubic Inches)
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 Engine: Front X Mid ___ Rear ___ Drive: FWD X RWD ___ 4WD-FT ___ 4WD-PT ___
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