

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-740  
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 1998 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: WFMXV02.5AFA Displacement: 2.5 Liters (155 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Dual Three Way Catalytic Converters
- Three Way Catalytic Converter
- 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 certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.25	3.4	0.4	10.0
100,000	0.31	4.2	0.6	n/a

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

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.13	1.8	0.1	6.7
100,000	0.16	2.3	0.1	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 gases (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 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 14<sup>th</sup> day of January 1997.



R. B. Summerfield, Chief  
Mobile Source Operations Division

1998 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1  
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: FORD MOTOR COMPANY Exh Eng Fam: WFMXV02.5AFA Evap Fam: WFMXE0115B1E  
 Exh Std: CA Tier-1  TLEV  LEV  ULEV  SULEV  ORVR: YES  NO   
 US EPA Tier-1  ILEV  CFV   
 All Engine Codes in Engine Family: CA  49S  50S  AB965   
 Veh Class(es): PC  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  Dual-Fuel  Bi-Fuel  Gasoline  Diesel   
 CNG  LNG  LPG  M85  Other (specify) \_\_\_\_\_  
 Emiss Test Fuel(s): Indo  CBG  CNG  LPG  M85  Other (specify) \_\_\_\_\_  
 Diesel: 13 CCR 2282  40 CFR 86.113-90  40 CFR 86.113-94   
 Service Accum: Std AMA  Mod AMA  Mfr ADP  Other (specify) \_\_\_\_\_  
 NMOG Test Procedure: N/A  Std  Equip  R/L Test Proc: SHED  Pt Source   
 Engine Configuration: V-6 Displacement: 2.5 / \_\_\_\_\_ Liters 155 / \_\_\_\_\_ Cubic Inches  
 Valves per Cylinder: 4 Rated HP: \_\_\_\_\_ 170 @ \_\_\_\_\_ 6250 RPM  
 Engine: Front  Mid  Rear  Drive: FWD  RWD  4WD-FT  4WD-PT   
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): 2TWC, TWC, 2HO2S(2), EGR, SFI  
 (use abbreviations per SAE J1930 JUN93)

Engine Code 'also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans (M5, A4 etc.)	ETW or Test Wt.	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
812TR00 A	CONTOUR 1FA	L4	3250*	@ #	97BB-HA or	F53E-AA	97BB-CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	" XA	"	"
811TR00 A	CONTOUR 1FA	M5	3375	5.1 5.4	97BB-FA or	"	97BB-BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	" VA	"	"
812TR05 A	CONTOUR 1FA	L4	3250*	5.1 5.4	97BB-XB	"	97BB-CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	"	"	"
811TR05 A	CONTOUR 1FA	M5	3375	5.2 5.5	97BB-VB	"	97BB-BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	"	"	"
812TR06 A	CONTOUR 1FA	L4	3250*	5.1 5.4	97BB-XC	"	97BB-CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	"	"	"
811TR06 A	CONTOUR 1FA	M5	3375	5.2 5.5	97BB-VC	"	97BB-BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	"	"	"

\* Test at next higher ETW  
 @ Standard tire (P195/65R14)  
 # Optional tire (P205/60R15)

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1 of       
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.5AFA  
 Evap Std: 100K\_X Useful Life with R/L      Evap Engine Family: WFMXE0115B1E  
 Exh Std: Tier-0      Tier-1 X TLEV      LEV      ULEV      ZEV     ; EPA Tier-0      Tier-1       
 Veh Class(es): PC\_X LDT1      LDT2      MDV1      MDV2      MDV3      MDV4      MDV5       
 Single Cert Std for Multi-Class Eng Fam:      (specify: N/A, LDT1, MDV1, ETC.)  
 Exh Cert Fuel(s): Indo X Ph2      Diesel: 13 CCR 2282      or 40 CFR 86.113-90      or -94       
 Fuel Type(s): M85      CNG      LPG      Other (specify)      Gasoline X Diesel      M85       
 Dedicated      Flex-Fuel      Dual-Fuel      Gasoline X Diesel      M85       
 CNG      LNG      LPG      Other (specify)       
 Hybrid: Type A      B      C     , APU Cycle (e.g., Otto, Diesel, Turbine)       
 Engine Configuration: V-6 Displacement: 2.5 /      Liter      /      Cubic Inches  
 Engine: Front X Mid      Rear      Drive: FWD X RWD      4WD-FT      4WD-PT       
 Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): EGR, TWC, SFI, HO2S(2), ZTWC  
 (Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9D475-	Catalyst Part No. -5E212-
2.5L				@ #			
812TR00 A	CONTOUR 1FA	A	3375	5.1 5.4	97BB--HA or	F53E-AA	97BB--CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	" XA	"	"
811TR00 A	CONTOUR 1FA	M	3250*	5.2 5.5	97BB--FA or	"	97BB--BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	" VA	"	"
812TR05 A	CONTOUR 1FA	A	3375	5.1 5.4	97BB--XB	"	97BB--CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	"	"	"
811TR05 A	CONTOUR 1FA	M	3250*	5.2 5.5	97BB--VB	"	97BB--BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	"	"	"
812TR06 A	CONTOUR 1FA	A	3375	5.1 5.4	97BB--XC	"	97BB--CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	"	"	"
811TR06 A	CONTOUR 1FA	M	3250*	5.2 5.5	97BB--VC	"	97BB--BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	"	"	"
* Test at next higher ETW							
@ Standard tire (P195/65R14)							
# Optional tire (P205/60R15)							
Certification Standards							
<u>50K/100K</u>							
NMHC:	0.25/0.31						
CO:	3.4/4.2						
NOx:	0.4/0.6						
Enh EVAP	2.0/2.5/0.05						
COLD CO:	10.0						

E.O.# A-10-740

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page \_\_\_ of \_\_\_  
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.5AFA  
 Evap Std: 100K X Useful Life with R/L X Evap Engine Family: WFMXE0115B1E  
 Exh Std: Tier-0 \_\_\_ Tier-1 X TLEV \_\_\_ LEV \_\_\_ ULEV \_\_\_ ZEV \_\_\_; EPA Tier-0 \_\_\_ Tier-1 \_\_\_  
 Veh Class(es): PC X LDT1 \_\_\_ LDT2 \_\_\_ MDV1 \_\_\_ MDV2 \_\_\_ MDV3 \_\_\_ MDV4 \_\_\_ MDV5 \_\_\_  
 Single Cert Std for Multi-Class Eng Fam: \_\_\_ (specify: N/A, LDT1, MDV1, ETC.)  
 Exh Cert Fuel(s): Indo X Ph2 \_\_\_ Diesel: 13 CCR 2282 \_\_\_ or 40 CFR 86.113-90 \_\_\_ or -94 \_\_\_  
 M85 \_\_\_ CNG \_\_\_ LPG \_\_\_ Other (specify) \_\_\_  
 Fuel Type(s): Dedicated \_\_\_ Flex-Fuel \_\_\_ Dual-Fuel \_\_\_ Gasoline X Diesel \_\_\_ M85 \_\_\_  
 CNG \_\_\_ LNG \_\_\_ LPG \_\_\_ Other (specify) \_\_\_  
 Hybrid: Type A \_\_\_ B \_\_\_ C \_\_\_; APU Cycle (e.g., Otto, Diesel, Turbine) \_\_\_  
 Engine Configuration: V-6 Displacement: 2.5 / \_\_\_ Liter 155 / \_\_\_ Cubic Inches  
 Engine: Front X Mid \_\_\_ Rear \_\_\_ Drive: FWD X RWD \_\_\_ 4WD-FT \_\_\_ 4WD-PT \_\_\_  
 Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): EGR, 2 TWC, SFI, 2 HO2S(2), TWC  
 (Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No.	EGR Syst. Part No.	Catalyst Part No.
2.5L				@ #			
812TR07 A	CONTOUR 1FA	A	3375	5.1 5.4	97BB--XD	F53E-AA	97BB--CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	"	"	"
811TR07 A	CONTOUR 1FA	M	3250*	5.2 5.5	97BB--VD	"	97BB--BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	"	"	"
811FR00 A	CONTOUR 1FA	M	3375	6.2	F8RF--AA	F53E-AA	F7NV--AB
811FR05 A	CONTOUR 1FA	M	3375	6.2	F8RF--AB	"	"
	SVT						

\* Test at next higher ETW  
 @ Standard tire (P195/65R14) (P205/55R16 on SVT)  
 # Optional tire (P205/60R15)

Certification Standards  
50K/100K  
 NMHC: 0.25/0.31  
 CO: 3.4/4.2  
 NOx: 0.4/0.6  
 Enh EVAP 2.0/2.5/0.05  
 COLD CO: 10.0

E.O.# \_\_\_\_\_

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page \_\_\_ of \_\_\_  
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 Evap Std: 100K X Useful Life with R/L \_\_\_ Evap Engine Family: WFMXE0115B1E  
 Exh Std: Tier-0 \_\_\_ Tier-1 X TLEV \_\_\_ LEV \_\_\_ ULEV \_\_\_ ZEV \_\_\_; EPA Tier-0 \_\_\_ Tier-1 \_\_\_  
 Veh Class(es): PC X LDT1 \_\_\_ LDT2 \_\_\_ MDV1 \_\_\_ MDV2 \_\_\_ MDV3 \_\_\_ MDV4 \_\_\_ MDV5 \_\_\_  
 Single Cert Std for Multi-Class Eng Fam: \_\_\_ (specify: N/A, LDT1, MDV1, ETC.)  
 Exh Cert Fuel(s): Indo X Ph2 \_\_\_ Diesel: 13 CCR 2282 or 40 CFR 86.113-90 \_\_\_ or -94 \_\_\_  
 Fuel Type(s): M85 \_\_\_ CNG \_\_\_ LPG \_\_\_ Other (specify) \_\_\_  
 Dedicated X Flex-Fuel \_\_\_ Dual-Fuel \_\_\_ Gasoline X Diesel \_\_\_ M85 \_\_\_  
 CNG \_\_\_ LNG \_\_\_ LPG \_\_\_ Other (specify) \_\_\_  
 Hybrid: Type A \_\_\_ B \_\_\_ C \_\_\_ APU Cycle (e.g., Otto, Diesel, Turbine) \_\_\_  
 Engine Configuration: V-6 Displacement: 2.5 / \_\_\_ Liter \_\_\_ / \_\_\_ Cubic Inches  
 Engine: Front X Mid. \_\_\_ Rear \_\_\_ Drive: FWD X RWD \_\_\_ 4WD-FT \_\_\_ 4WD-PT \_\_\_  
 Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): EGR, TWC, SFI, HO2S(2), 2TWC  
 (Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9D475-	Catalyst Part No. -5E212-
2.5L				@ #			
812TR07 A	CONTOUR 1FA	A	3375	5.1 5.4	97BB--XD	F53E-AA	97BB--CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	"	"	"
811TR07 A	CONTOUR 1FA	M	3250*	5.2 5.5	97BB--VD	"	97BB--BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	"	"	"
811FR00 A	CONTOUR 1FA	M	3375	6.2	F8RF--AA	F53E-AA	F7NV--AB
811FR05 A	CONTOUR 1FA	M	3375	6.2	F8RF--AB	"	"
811TR10 A	CONTOUR 1FA	M	3375	5.2 5.5	97BB--VE	F53E-AA	97BB--BA
	MYSTIQUE 1FA	M	3375	5.2 5.5	97BB--VE	"	"

\* Test at next higher ETW

@ Standard tire (P195/65R14) (P205/55R16 on SVT)

# Optional tire (P205/60R15)

Certification Standards  
 50K/100K  
 NMHC: 0.25/0.31  
 CO: 3.4/4.2  
 NOx: 0.4/0.6  
 Enh EVAP 2.0/2.5/0.05  
 COLD CO: 10.0

1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.5AFA  
 Evap Std: 100K X Useful Life with R/L      Evap Engine Family: WFMXE0115B1E  
 Exh Std: Tier-0      Tier-1 X TLEV      LEV      ULEV      ZEV     ; EPA Tier-0      Tier-1       
 Veh Class(es): PC X LDT1      LDT2      MDV1      MDV2      MDV3      MDV4      MDV5       
 Single Cert Std for Multi-Class Eng Fam:      (specify: N/A, LDT1, MDV1, ETC.)  
 Exh Cert Fuel(s): Indo X Ph2      Diesel: 13 CCR 2282 or 40 CFR 86.113-90      or -94       
 M85      CNG      LPG      Other (specify)       
 Fuel Type(s): Dedicated X Flex-Fuel      Dual-Fuel      Gasoline X Diesel      M85       
 CNG      LNG      LPG      Other (specify)       
 Hybrid: Type A      B      C     , APU Cycle (e.g., Otto, Diesel, Turbine)       
 Engine Configuration: V-6 Displacement: 2.5 /      Liter /      Cubic Inches  
 Engine: Front X Mid.      Rear      Drive: FWD X RWD      4WD-FT      4WD-PT       
 Exhaust ECS & Special Features (EG., EGR, MFI, TC, CAC): EGR, TWC, SFI, HO2S(2) 2TWC  
 (Use abbreviations per SAE J1930 Sep 91)

Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECM/PCM) Part No.	EGR Syst. Part No	Catalyst Part No.
					-12A650-	-9D475-	-5E212-
2.5L				@ #			
812TR07 A	CONTOUR 1FA	A	3375	5.1 5.4	97BB--XD	F53E-AA	97BB--CA
A	MYSTIQUE 2FA	"	3375	5.1 5.4	"	"	"
811TR07 A	CONTOUR 1FA	M	3250*	5.2 5.5	97BB--VD	"	97BB--BA
A	MYSTIQUE 2FA	"	3375	5.2 5.5	"	"	"
811FR00 A	CONTOUR 1FA	M	3375	6.2	F8RF--AA	F53E-AA	F7NV--AB
811FR05 A	CONTOUR 1FA	M	3375	6.2	F8RF--AB	"	"
811TR10 A	CONTOUR 1FA	M	3375	5.2 5.5	97BB--VE	F53E-AA	97BB--BA
	MYSTIQUE 1FA	M	3375	5.2 5.5	97BB--VE	"	"
812TR10 A	CONTOUR 1FA	A	3375	5.1 5.4	97BB--XE	F53E-AA	97BB--CA
	MYSTIQUE 1FA	"	3375	5.1 5.4	"	"	"

\* Test at next higher ETW  
 @ Standard tire (P195/65R14) (P205/55R16 on SVT)  
 # Optional tire (P205/60R15)  
 Certification Standards  
 50K/100K  
 NMHC: 0.25/0.31  
 CO: 3.4/4.2  
 NOx: 0.4/0.6  
 Enh EVAP 2.0/2.5/0.05  
 COLD CO: 10.0