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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER <u>A-10-738</u> 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:

<u>Fuel Type</u>: Gasoline

Engine Family: WFMXV02.0AFA Displacement: 2.0 Liters (121 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Heated Oxygen Sensors (two)
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	Carbon	Nitrogen	Carbon	
	Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	<u>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:

Miles	Non-Methane	Carbon	Nitrogen	Carbon	
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	Monoxide (20°F)	
50,000	0.07	1.3	0.2	3.6	
100,000	0.09	1.7	0.2	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 Standard, and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Dely 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 sea.).

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 // day of January 1997.

R. B. Summerfield, Chief

Mobile Source Operations Division

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

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ad .							
Manufacturer:	FORD MOTOR COMPA	ANY_ Ex	h Eng Fam:	WFMXV02	<u>.OAFA</u> Evap	p Fam: <u>WFN</u>	MXE0115B1E
Exh Std: CA	Tier-1_X_ TLEV	LEV	ULE\	/ SULF	EV	ORVR: YES	S NO <u>_X</u>
US	EPA Tier-1	-	_			ILEV	CFV
All Engine Co	odes in Engine Fam	miliy: Ca	A <u>X</u>	198	50S	AB965	
	: PC <u>X</u> LDT1_						MDV5
	Std for Multi-Cla						
	: Dedicated <u>X</u>						
• • • • • • • • • • • • • • • • • • • •	CNGLNG						
Emiss Test Fu	uel(s): Indo_X_						
					.113-90		
Service Accum	n: Std AMA <u>X</u> I		·				
	ocedure: N/A <u>X</u>						
	guration: <u>I-4</u>						
	/linder: <u>4</u>						
	nt <u>X</u> Mid						
EXHAUST EUS ((e.g., MFI, EGR,	10, 0,10,1	(use	abbrevia	ions per SAI	E J1930 JUN	N93)
Fngine Code	Vehicle Models	Trans	FTW	DPA	Ignition	FGR	Catalytic
(also list	(if coded see	(M5, A4	or	or RLHP	Ignition (ECM/PCM) Part No.	System	Converter
<u>CA/49ST/50ST</u>	`attachment)	etc.)	Test Wt.	RLHP	Part No.	Part No.	Part No.
				0 #			
803PR00 N	CONTOUR 1FA	M5	3125	5.4 5.4	97BB-BA	NONE	97BB-BE
A	CONTOOK ITA	"	3125	5.9 5.9	II	HONL	a a
Ņ	MYSTIQUE 2FA	11	3125	5.4 5.4	u 11		11 11
A			3250	5.9 5.9			
803PR05 N	CONTOUR 1FA	M5	3125	5.4 5.4	97BB-BB	NONE	97BB-BE
A N	MYSTIQUE 2FA	, n	3125 3125	5.9 5.9 5.4 5.4	п		"
Ä	110111	"	3250	5.9 5.9	14		11
1							
N = NO A/C A = A/C							
A = A/C - 1		1					
a Standard ti	ire (P185/70R14)]					
# Optional ti	ire (P205/60R15)						
1							
ļ							

Date Issued: 11-14-96 Revisions:

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

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AFA 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 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: I-4 Displacement: 2.0 / Liter / Cubic Inchesence Configuration: I-4 Displacement: 2.0 / Liter / Cubic Inchese Configuration: I-4 Displacement: 2.0 / Liter								
Engine Code/ CALIF	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	or	Ign. Sys. (ECM/PCM) Part No. -12A650-	EGR Syst. Part No -9M444-	Catalyst Part No.	
2.0L 803PR00 N A N A	CONTOUR 1FA " MYSTIQUE 2FA "	M " "	3125 3125 3125 3250	@ # 5.4 5.4 5.9 5.9 5.4 5.4 5.9 5.9	97BB-BA " "	NONE	97BBBE	
803PR05 N A N A	CONTOUR 1FA " MYSTIQUE 2FA "	M "	3125 3125 3125 3250	5.4 5.4 5.9 5.9 5.4 5.4 5.9 5.9	9788-88 "		97BBBE "" ""	
803PR10 N A N A	CONTOUR " MYSTIQUE "	M : :	3125 3125 3125 3250	5.4 5.4 5.9 5.9 5.4 5.4 5.9 5.9	98BB-BKA " " "	NONE	97BBBE	
@ Standard tire (P185/70R14)								
# Optional tire (P205/60R15)								
NMHC: CO NOx: Enh EVAP	50K/100K 0.25/0.31 3.4/4.2 0.4/0.6 2.0/2.5/0.05							

ENGINE FAMILY: WFMXV02.0AFA ISSUED: 11-14-96 REVISED: 11-11-97

E.O.# 4-10-738

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

Manufacturer FORD MOTOR COMPANY Eng. Family WFMXV02.0AFA

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.) MDV5 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 Type) Hybrid: Type A B C , APU Cycle (e.g., Otto, Diesel, Turbine)
Engine Configuration: I-4 Displacement: 2.0 / 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): TWC, SFI, HO2S (Z) (Use abbreviations per SAE J1930 Sep 91) Veh. Models Trans. Equiv. RLHP Ign. Sys. EGR Catalyst Engine Part No. Code/ (If Coded Type: Test or (ECM/PCM) Syst. CALIF A-Auto Weight DPA Part No. Part No see -12A650--9M444--5E211-M-Man. Attachmt.) 2.0L @ # 5.4 5.4 97BB--BE 803PR00 N CONTOUR 1FA М 3125 97BB-BA NONE ** 3125 5.9 5.9 Α 11 11 MYSTIQUE 2FA 3125 5.4 5.4 N 11 3250 5.9 5.9 A 803PR05 N CONTOUR 1FA 3125 5.4 5.4 97BB-BB 97BB--BE М Ħ 11 3125 5.9 5.9 11 ** Α ** 11 11 MYSTIQUE 2FA 3125 5.4 5.4 Ν 11 3250 5.9 5.9 Α 5.4 5.4 97BB--BE 3125 98BB-BKA NONE 803PR10 N CONTOUR M 5.9 5.9 11 ** 3125 Α •• ** 3125 5.4 5.4 Ν MYSTIOUE 5.9 5.9 3250 Α 5.4 5.4 98BB-BKB 97BB--BE 3125 NONE 803PR11 N CONTOUR Μ 5.9 5.9 3125 11 Α ** 5.4 5.4 3125 Ν MYSTIQUE 5.9 5.9 ** 3250 Α @ Standard tire (P185/70R14) # Optional tire (P205/60R15) Certification Standards 50K/100K NMHC: 0.25/0.31CO: 3.4/4.2 NOx: 0.4/0.6 2.0/2.5/0.05 -Enh EVAP

20.09.17.02 - 1

ENGINE FAMILY: WFMXV02.0AFA ISSUED: 11-14-96

COLD CO: 10.0

ISSUED: 11-14-96 REVISED: 11-11-97, 11-24-97 R/C 2.0-2, -9, -16