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(Page 1 of 3)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-782 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 medium-duty vehicles:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: WFMXA05.4JGC Displacement: 5.4 Liters (326 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters (two) 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:

Test Weight (lbs.)	_Miles_	NMOG	<u></u>	<u>NOx</u>	НСНО	CO (20°F)
5751-8500	50,000	0.195	5.0	0.6	0.022	12.5
	120,000	0.280	7.3	0.9	0.032	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:

Test Weight (lbs.)	Miles	NMOG	<u></u>	<u>NOx</u>	НСНО_	<u>CO (20°F)</u>
5751-8500	50,000	0.080	1.5	0.1	0.001	4.2
	120,000	0.101	2.0	0.3	0.002	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 medium-duty vehicle phase-in 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" (Title 13, California Code of Regulations, Section 1960.1(h)(2)).

BE IT FURTHER RESOLVED: That under the submitted medium-duty vehicle phase-in compliance plan, if the manufacturer incurs "Vehicle Equivalent Debits" for the aforementioned model year due to the manufacturer's failure to produce and deliver for sale in California the equivalent quantity of medium-duty vehicles certified to low-emission vehicle and/or ultra-low-emission vehicle exhaust emission standards required by the above-referenced standards and test procedures, all "Vehicle Equivalent Debits" incurred 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 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.).

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 25 day of July 1997.

for R. B. Summerfield, Chief
Mobile Source Operations Division

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E.O.# A-10-782

1998 MODEL YEAR SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Migr. <u>FORD</u>	MOTOR COMPANY	Exl	haust Engi	ine Fam	nily: <u>WFMXA</u>	05.4JGC	
Engine Code 1	Types: CA <u>X</u> 49S_	50S					
Evap Emission	ns Family: WFMXEO	155B1F/B1G					
Evap Std: 50 Service A	F-0 Tier-1 Proc.: <u>Erviv.</u> DK Useful Lif rcum: <u>Mod. AN</u> : PC LDT1	e with R/L <u>X</u>	, R/L Te	st Pn	c. Point Sou	irce.	ORUR NO
Single Cert S	std for Multi-Cla	ss Eng Fam: <u>N</u>	/A_ (sp	ecify:	N/A, LDT1,M	DV1,MDV2,M	IDV3,MDV4)
Exh Cert Fuel	(s): Indo Ph	2_X_ Diesel:	13 CCR 22	82	or 40CFR 86.	113-90	or -94
Fuel Type(s):	Dedicated	G LPG Flex Fuel	Dual-Fuel				
Hybrid: Type	Gasoline_X D A B C	reser M85_ _, APU Cycl	CNG .e (eg,	_ LPG Otto,	Other (Diesel, Turb	specify) sine)	
Valves/Cyl: _	_ <u>V-8</u> Disp 2 t_X Mid_ Rea	Rat	ed HP: _2	30 @	4250 RPM		PT <u>X</u>
Exhaust Contr	ol System and Spe	ecial Features					
			(Use ab	brevia	tions per SA	Œ J1930 SE	P91)
Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	or	OPA Or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
846UR00A		A			F85F-YA	F75E-CA	F85A-AA
	Expedition 4x2		6000	*			F85A-BA
	Expedition 4x4		6000	*			
	Navigator 4x2		6000	*			
	Navigator 4x4		6500	*			

^{*} See Section 20.09.17.03

1998 MODEL YEAR SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Migr. <u>FORD</u>	MOTOR COMPANY	Exi	haust Engi	ne Fam	ily: <u>WFMXA</u> ()5.4JGC	
Engine Code 7	Types: CA <u>X</u> 49S_	50S					
Evap Emission	ns Family: WFMXEO	155B1F/B1G					
Exh Std: Tier	0 Tier-1	TLEV LEV	X_ ULEV	z:	EV EPA T	IER-0	TIER-1
Evap Std: 50	OK Useful Life	e with R/L <u>X</u>	RILTEST	- Proc.	PT. Source	ORV	R- NO
	: PC LDT1						,
Single Cert S	Std for Multi-Clas	ss Eng Fam: <u>N</u>	/A (spe	ecify:	N/A, LDT1,M	DV1,MDV2,M	DV3,MDV4)
Exh Cert Fuel	(s): Indo Ph:	2 <u>X</u> Diesel: G LPG	13 CCR 228	32 (or 40CFR 86.	113-90	or -94
Fuel Type(s):	Dedicated	Flex Fuel	Dual-Fuel_				
Hybrid: Type	Gasoline <u>X</u> D.	_, APU Cycl	CNG .e (eg, (_ LPG_ Otto, :	Other (Diesel, Turb	specify) ine)	
Valves/Cyl: _	<u>V-8</u> Disp. 2 t <u>X</u> Mid_ Rea	Rat	ed HP: 2	30 @	4250 RPM		PT X
	ol System and Spe		∠ TWC(2) HO2	s@egr			
(also list	Vehicle Models (if coded see attachment)		or	DPA or RLHP	(ECM/PCM)	-	Catalytic Converter Part No.
846UR05A		A			F85F-YB	F75E-CA	F85A-AA
	Expedition 4x2		6000 ''	*			F85A-BA
	Expedition 4x4		6000	*			
	Navigator 4x2		6000	*			
	Navigator 4x4		6500	*			

^{*} See Section 20.09.17.03

1998 MODEL YEAR CERTIFICATION REVIEW SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

MfgrFORD	MOTOR COMPANY	Exh	naust Engi	ne Fam	ily: WFMXA	5.4JGC	
Engine Code T	ypes: CA <u>X</u> 49S_	50s					
Evap Emission	s Family: WFMXE0	155B1F/B1G					
Exh Std: Tier	-0 Tier-1	TLEV LEV	X ULEV	z	EV EPA T	IER-0	TIER-1
Evap Std: 50	K Useful Life	e with R/L <u>X</u>	In-Use Ex	ch Std	: Full In Us	e Alt	In Use <u>X</u>
Veh Class(es)	: PC LDT1	LDT2MDV	1MDV2	2	MDV3_X_ MD	V4MDV	′5
Single Cert S	td for Multi-Clas	ss Eng Fam: N	/A (spe	cify:	N/A, LDT1,M	DV1,MDV2,M	DV3,MDV4)
Exh Cert Fuel	(s): Indo Ph:	2 X Diesel:	13 CCR 228	32	or 40CFR 86.	113-90	or -94
Fuel Type(s):	M85CN6 Dedicated X Gasoline X D	G LPG Flex Fuel	Other (spe Dual-Fuel	ecify)			
Hybrid: Type	A B C	leselM85_ _, APU Cycl	e (eg, (LPG Otto,	Other (Diesel, Turb	specify) ine)	
Valves/Cyl: :	V-8 Disp. 2 t X Mid Rea	Rat	ed HP: 23	30 @	4250 RPM		т <u>х</u>
	ol System and Spe						
			(Use abl	orevia	tions per SA	E J1930 SE	P91)
Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)		or		Ignition (ECM/PCM) Part No.		
846UR10A		A			F85F-YC	F75E-CA	
	Expedition 4x2		6000	*			F85A-BA
	Expedition 4x4		6000	*			
	Navigator 4x2		6000	*			
	Navigator 4x4		6500	*			

* See Section 20.09.17.03

ENGINE FAMILY: WFMXA05.4JGC ISSUED: 9-26-97 REVISED:

20.09.17.02 - 3

R/C - 17

Supplemental Data Sheet DPA Summary

				NON -		> <		AC		>
VEHICLE LINE		ETW	CDT	CODE	DPA	TRLHP (HP)	CDT	CODE	DPA	TRLHP (HP
EXPEDITION 4X2		5000	18.12	(C)	12.0	19.12	15.69	(C)	13.2	19.64
(UN93)		5250	17.03	(C)	12.0	19.00	16.17	(C)	13.2	20.01
E40D	\$	5500	17.75	(A)	12.0	19.10	16.65	(A)	13.2	20.36
255/70R16 A/S TIRE	\$	6000	18.93	(C)	12.0	19.54	17.62	(C)	13.2	20.99
E40D		5000	15.88	(C)	12.2	19.41	15.09	(C)	13.4	20.42
P255/70R16 A/T TIRE		5250	16.54	(C)	12.2	19.57	15.64	(C)	13.4	20.69
	\$	5500	17.20	(R)	12.2	19.71	16.19	(R)	13.4	20.94
	\$	6000	18.51	(C)	12.2	19.98	17.30	(C)	13.4	21.38
EXPEDITION 4X4		5500	14.91	(C)	14.2	22.74	14.06	(C)	15.6	24,11
(EPNU)	3	6000	15.95	IC)	14.2	23.19	15.06	(C)	15.6	24.56
E4OD	3	6500	17.00	(C)	14.2	23.57	16.07	(C)	15.6	24.93
P255/70R16 A/S TIRE										
			:							
E4OD		5500	14.79	(C)	14.6	22.92	14.03	(C)	16.0	24.16
P255/70R16 A/T TIRE	3	6000	15.84	{C}	14.6	23.35	14.93	(C)	16.0	24.77
	\$	6500	16.90	{C}	14.5	23.71	15.83	(C)	16.0	25.31
E4OD		5500	14.82	(C)	14.8	22.88	13.89	(C)	16.2	24.41
P265/70R17 A/T TIRE	\$	6000	15.71	(C)	14.8	23.54	14.82	IC)	16.2	24.96
	\$	6500	16.59	(C)	14.8	24.15	15.75	ICI	16.2	25.44
NAVIGATOR 4x2		5500	16.51	(C)	13.8	20.53	15.50	IC)	15.2	21.87
(UN173)	\$	6000	17.56	(C)	13.8	21.06	16.34	IC)	15.2	22.63
E40D										1
P245/75R16 A/S TIRE										
NAVIGATOR 4x4		6000	15.69	(C)	15.9	23.57	14.82	(C)	17.3	24.96
(UN173)		6500	16.67	(C)	15.9	24.04	15.77	{C1	17.3	25.41
E4OD			——			·				
P245/75R16 A/S TIRE			<u> </u>							+
										
NAVIGATOR 4x4		6000	16.12	(C)	15.6	22.94	15.33	(C)	17.0	24.13
(UN173)	\$	6500	17.02	(C)	15.6	23.54	15.91	(C)	17.0	25.18
E4OD			†							T
P255/75R17 A/T TIRE						 	-			+