State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-764
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: WFMXT03.8AAA Displacement: 3.8 Liters (232 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:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
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:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.096	1.1	0.2	0.002	5.4
	100,000	0.101	1.2	0.2	0.002	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is vertifying 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

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

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXT03.8AAA

Engine Code Types: CA X 49S___ 50S___ Evap Emissions Family: WFMXE0140B1E ORVR No

Exh Std: Tier-0___ Tier-1___ TLEV___ LEV X ULEV___ ZEV___ EPA TIER-0___ TIER-1___

NMOG Test Proc Equiv.
Evap Std: 50K___ Useful Life with R/L X In-Use Exh Std: Full In Use___ Alt In Use X

R/L Test Proc Pt. Source
Veh Class(es): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___

Service Accum. ADP
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 6 Displacement: 3.8L(232) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 200 @ 5000 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd X RWD___ 4WD-FT___ 4WD-PT___

Exhaust Control System and Special Features 2 TWC, 2 HO2S(4) 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.
862SR00A/N		A			F78F-JA	F65E-AA	F78A-ADD
						(alt)	F78A-ADE
						(alt)	F78A-ADF
	Windstar RVL (P215 tire)		3875	10.3			
			3875	11.3*			
	Windstar CWL (P205 tire)		4250	9.7			
			4250	10.7*			
	(P215 tire)		4250	10.3			
			4250	11.3*			
862TR00A/N		A			F78F-KA	"	"
	Windstar RVL (P215 tire)		3875	10.3			
			3875	11.3*			
	Windstar CWL (P205 tire)		4250	9.7			
			4250	10.7*			
	(P215 tire)		4250	10.3			
			4250	11.3*			

* with air conditioning

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

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXT03.8AAA

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___ 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: 3.8L(232) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 200 @ 5000 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd X RWD___ 4WD-FT___ 4WD-PT___

Exhaust Control System and Special Features 2TWC,2HO2S(2),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.
862SR11A/N		A			F78F-JF	F65E-AA	F78A-ADD
						(alt)	F78A-ADE
						(alt)	F78A-ADF
	Windstar RVL (P215 tire)		3875	8.5			
			3875	9.4*			
	Windstar CWL (P205 tire)		4250	9.1			
			4250	10.0*			
	(P215(SS)tire)		4250	7.7			
			4250	8.5*			
	(P215/P225 tire)		4250	8.5			
			4250	9.4*			
862TR11A/N		A			F78F-KF	"	"
	Windstar RVL (P215 tire)		3875	8.5			
			3875	9.4			
	Windstar CWL (P205 tire)		4250	9.1			
			4250	10.0*			
	(P215(SS)tire)		4250	7.7			
			4250	8.5*			
	(P215/P225 tire)		4250	8.5			
			4250	9.4*			

(ss)tire - Uniroyal self sealing tire
* with air conditioning

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PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXT03.8AAA

Engine Code Types: CA X 49S___ 50S___ Evap Emissions Family: WFMXE0140B1E

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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___ 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: 3.8L(232) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 200 @ 5000 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd X RWD___ 4WD-FT___ 4WD-PT___

Exhaust Control System and Special Features 2TWC, 2HO2S(2)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.
862SR06A/N		A			F78F-JD	F65E-AA	F78A-ADD
						(alt)	F78A-ADE
						(alt)	F78A-ADF
	Windstar RVL (P215 tire)		3875	8.5			
			3875	9.4*			
	Windstar CWL (P205 tire)		4250	9.1			
			4250	10.0*			
	(P215(SS)tire)		4250	7.7			
			4250	8.5*			
	(P215/P225 tire)		4250	8.5			
			4250	9.4*			
862TR06A/N		A			F78F-KD	"	"
	Windstar RVL (P215 tire)		3875	8.5			
			3875	9.4			
	Windstar CWL (P205 tire)		4250	9.1			
			4250	10.0*			
	(P215(SS)tire)		4250	7.7			
			4250	8.5*			
	(P215/P225 tire)		4250	8.5			
			4250	9.4*			

(ss)tire - Uniroyal self sealing tire
* with air conditioning