State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-653 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 1996 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TFM3.018G1EK <u>Displacement</u>: 3.0 Liters (183 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two)
Dual Heated Oxygen Sensors
Heated Oxygen Sensor
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 (in-use compliance standards in parentheses) for this engine family in grams per mile are:

Loaded Vehicle _Weight(lbs.)			Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon Monoxide (20°F)	
0-3750	50,000	0.25 (0.32)	3.4 (5.2)	0.4 (0.4)	10.0 (10.0)	
	100,000	0.31 (n/a)	4.2 (n/a)	0.6 (n/a)	n/a	

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

Loaded Vehicle <u>Weight(lbs.)</u>	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon Monoxide (20°F)
0-3750	50,000 100,000	0.16 0.19	1.1	0.2 0.2	5.0 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 gas (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, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance 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 the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 20 percent of the manufacturer's projected sales of 1996 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 "California Motor Vehicle Emission Control 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 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 "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

day of July 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

1996 MODEL YEAR SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD M	OTOR COMPANY	Exha	aust Engir	ne Fami	ly: <u>TFM3.01</u>	BG1EK	
Engine Code Ty	pes: CA <u>X</u> 49S	50S Eva	porative H	Emissio	ns Family:_	FM1045AYP	BA
Exh Std: Tier-	0 Tier-1_X_	TLEV LEV_	ULEV_	ZEV	/ EPA TI	ER-0 T	TIER-1
Evap Std: 50F	X_X_ Useful Life	with R/L	In-Use Ex	ch Std:	Full In Use	Alt I	n Use
Veh Class(es):	PCLDT1_X_	LDT2MDV	1 MDV2	2 M	DV3 MDV4	MDV5_	
Single Cert St	d for Multi-Clas	s Eng Fam: <u>N</u>	/ <u>A</u> (spe	ecify: 1	N/A, LDT1,MI	V1,MDV2,MI)V3,MDV4)
Exh Cert Fuel	(s): Indo X Ph2	Diesel: 1	13 CCR 228	32 o: ecicy)	r 40CFR 86.1	13-90 0	or -94
Fuel Type(s):	Dedicated 1	Flex Fuel 1	Dual-Fuel				
	Caroline Y Di	iesel M85	CNG	_ LPG_	Other (specify)	
Hybrid: Type	A B C	, APU Cycl	e (eg,	Otto, D	iesel, Turb	ine)	
Engine Config		lacement: 3.	OL (183)	L	iters (Cubi	c Inches)	
Valves/Cvl: _	2_	Rat	ed HP: _1	40 @	5000 RPM		_
Engine: Fron	<u>V-6</u>	ar Dri	ve: Fwd_	RWI	X 4WD-FT	4WD-P	Т
Exhaust Contro	ol System and Spe	ecial reacures	(Use ab	breviat	ions per SA	E J1930 SE	P91)
		1	l news	1 222 1	Ignition	EGR	Catalytic
	Vehicle Models (if coded see	Trans. Type	l or	or	(ECM/PCM)		, -
(also list	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
	<u> </u>	<u> </u>		<u>i</u>		F37E-CA	
556SR15A/N	Ranger/Mazda 4x	2 A4			F5/F-CUA	F3DE-AA	tuna no
						E6AE-BA	
	RC LWB		3500	11.2			
	RC SWB		3500	11.2			
	RC LWB		3500	12.3*			
	RC SWB		3500	12.3*	•		
	SC SWB		3750	11.2			
FFFODIEN (N		M5			F57F-CHA	и	ıı
555SR15A/N	RC LWB (Mazda on		3375	11.2		•	
	RC LWB (Ranger o		3500	11.2			
	RC SWB	-	3375	11.2			
	RC LWB		3500	12.3*			
	RC SWB		3500	12.3*			
	SC SWB (Mazda on	_	3750	11.2			
	SC SWB (Ranger o	nly)	3625	11.2			
	SC SWB		3750	12.3*			

Engine Family: SFM3.018G1EK Issued: 7-10-95 Revised:

^{*} with air conditioning

1996 MODEL _ SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD	MOTOR COMPANY	Exha	aust Engin	ne Famil	.у: <u>ТFM3.0</u>	18G1EK	
Engine Code Ty	ypes: CA <u>X</u> 49S_	50S Eva	porative E	Emission	ns Family:_	TFM1045AYPE	3A
Exh Std: Tier	-0 Tier-1_X_	TLEVLEV_	ULEV_	ZEV	EPA T	IER-0T	IER-1
Evap Std: 50	K <u>X</u> Useful Life	e with R/L	In-Use Ex	h Std:	Full In Use	Alt I	n Use
Veh Class(es)	: PC LDT1_X_	LDT2 MDV	LMDV2	MI	V3 MDV-	4 MDV5_	<u> </u>
	td for Multi-Clas						
Exh Cert Fuel	(s): Indo X Phi	2 Diesel: 1 3 LPG (13 CCR 228 Other (spe	2or	40CFR 86.	113-90 c	or -94
Fuel Type(s):	Dedicated	Flex Fuel I	Dual-Fuel_				
	Gasoline_X D A B C	iesel M85_	CNG	_ LPG	Other (specify) ine)	_ _
*** 1 / M1	<u>V-6</u> Disp 2_ t_X Mid Re	Rat.	ed HP 1.4	40 @	5000 RPM		r
Exhaust Contr	ol System and Sp	ecial Features	TWC(Z)SFI (Use abl	<u>,2</u> HO2S, breviat	EGR HOL ions per SA	S E J1930 SE	P91)
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	•	Catalytic
(also list	(if coded see	A-Automatic	or	or	(ECM/PCM)		
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
655SR10A/N	Ranger/Mazda 4x	2 M5			F57F-CHB	F37E-CA F3DE-AA E6AE-BA	F57A-ED
	RC LWB (Mazda on	ly)	3375	11.2			
	RC LWB (Ranger o		3500				
	RC SWB		3375	11.2			
	RC LWB		3500	12.3*			
	RC SWB	3 \	3500	12.3* 11.2			
	SC SWB (Mazda on		3750 3625	11.2			
	SC SWB (Ranger of SC SWB	IIIY)	3750	12.3*	•		
	50 5						fl
656SR10A/N		A4			F57F-CJB	10	"
	RC LWB		3500	11.2			
	RC SWB		3500	11.2 12.3*			
	RC LWB		3500 3500	12.3*			
	RC SWB		3500 3750	11.2			
	SC SWB		3730				

engine family: TFM3.018G1EK ISSUED: 10-13-95
REVISED: MAY 3 0 1996

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^{*} with air conditioning

1996 MODEL YEAR SUPPLEMTNAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD	MOTOR COMPANY	Exh	aust Engir	e Fami	ly: <u>TFM3.0</u>	18G1EK	
Engine Code	Types: CA <u>X</u> 49S_	50S Eva	porative E	Emission	ns Family:_	TFM1045AYP	ВА
Exh Std: Tie:	r-0 Tier-1_X_	TLEV LEV_	ULEV_	zev	EPA T	IER-0	rier-i
Evap Std: 5	OK_X Useful Lif	e with R/L	In-Use Ex	h Std:	Full In Use	e Alt :	In Use
Veh Class(es): PCLDT1_X	LDT2MDV	1 MDV2	MI	VQM MDV	4 MDV5	
Single Cert	Std for Multi-Cla	ss Eng Fam: <u>N</u>	A_ (spe	cify: N	I/A, LDT1,M	OV1,MDV2,MI	DV3,MDV4)
Exh Cert Fue	l(s): Indo <u>X</u> Ph M85CN	2 Diesel: 2 G LPG (40CFR 86.	113-90 (or -94
Fuel Type(s)	: Dedicated	Flex Fuel I	Dual-Fuel_	_			
	Gasoline X D	iesel M85_	CNG	LPG_	Other (specify)	
Hybrid: Typ	e A B C	_, APU Cycl	e (eg, (otto, D	lesel, Turb	ine)	
Engine Confi	g <u>V-6</u> Disp	lacement:3.	OL (183)	L:	iters (Cubi	c Inches)	
Values/Cul.	2	Rat	ed HP: 14	10 മ	5000 RPM		
Engine: From	nt_X Mid_ Re	ar Dri	ve: Fwd_	RWD	X 4WD-FT	4WD-P	T
Exhaust Cont	rol System and Sp	ecial Features	TWŒ <i>P</i>)SFI	,2H02S	EGR / 1 0	<u> </u>	
			(Use ab)	oreviat	ions per SA	E J1930 SE	P91)
√ Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR	Catalytic
(also list	(if coded see	A-Automatic	or	or	(ECM/PCM)	System	Converter
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
655SR11A/N	Ranger/Mazda 4x	2 M5	4-w		F57F-CHC	F37E-CA	F57A-ED
	-					F3DE-AA	
	RC LWB (Mazda on	7.11	2275	11.2		E6AE-BA	
	RC LWB (Ranger o			11.2			
	RC SWB		3375	11.2			
	RC LWB		3500	12.3*			
	RC SWB		3500	12.3*			
•	SC SWB (Mazda on		3750	11.2			
	SC SWB (Ranger o	nly)	3625				
	SC SWB		3750	12.3*			
656SR11A/N		A4			F57F-CJC	II	11
	RC LWB		3500	11.2			
	RC SWB		3500	11.2			
	RC LWB		3500	12.3*			
	RC SWB		3500	12.3*			
	SC SWB		3750	11.2			

ENGINE FAMILY: TFM3.018G1EK ISSUED: 2-14-96 REVISED:

^{*} with air conditioning