State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-723 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 1997 model-year exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: VFM5.4J8G1FK 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 certification exhaust emission standards for this engine family in grams per mile are:

Test Weight	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon	
(1bs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20⁰F)</u>	
5751-8500	50,000	0.39	5.0	1.1	12.5	
	120,000	0.56	7.3	1.53	n/a	

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

Test Weight (1bs.)	Miles	Miles Non-Methane Hydrocarbons		Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>	
5751-8500	50,000	0.11	1.2	0.4	2.6	
	120,000	0.13	1.7	0.53	n/a	

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 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.).

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 27 day of June 1996.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

Mfgr. <u>FORD</u>	MOTOR COMPANY	Exh	aust Engi	ne Famil	ly: <u>VFM5.4</u>	J8G1FK	
•			_		7	/FM1155AYP0	B/PFB
Engine Code T	Types: CA_X_ 49S_	50S Eva	porative	Emission	s Family:_	VFM1160AYM	GD/MFD
Exh Std: Tier	-0 Tier-1_X_	TLEVLEV	ULEV	ZEV	EPA T	IER-0	TIER-1
Evap Std: 50	K Useful Life	e with R/L_X	In-Use E	xh Std:	Full In Us	e_X_ Alt	In Use
R/L test p Veh Class(es)	roc.: Point S : PC LDT1	ource LDT2 MDV	ı mdv	2 МІ	OV3_X MIDV	4 MDV5	
Single Cert S	Std for Multi-Clas	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify: N	/A, LDT1,M	DV1,MDV2,M	DV3,MDV4)
Exh Cert Fuel	(s): Indo X Ph:				40CFR 86.	113-90	or -94
Fuel Type(s):	M85 CNO Dedicated	G LPG Flex Fuel					•
	Gasoline X D.	iesel M85_	CNG	_ LPG			
	e A B C ; Disp						
Engine Config	. <u>v-s</u> Disp	racement:			50 (F250)	c inches)	
Valves/Cyl: _	2	Rat			50 (Expedit	ion) RPM	
Engine: From	nt_X_ Mid Rea	ar Dri	ve: Fwd_	RWD_	X 4WD-FT	4WD-P	T_X_
Service Acc	um.: Mod AMA		2 === (2) ===	- 2	->		
Exnaust Contr	ol System and Spe	ecial Features			ions per SA	E .T1930 SE	P91)
			(000 00	DECTEUC.	201.0 pc1 01	E 01730 02	12 7 2 7
Engine Code	Vehicle Models		ETW	DPA	Ignition	EGR	Catalytic
jalso list	(if coded see	!	•	•	(ECM/PCM)		Converter
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
746TR00A	F250 4X2	А		F	75C-VA	F75E-AD	
	RKL	61	000/6500	13.2			F75A-AF
	RKL		•				
	SKS		000/6500	13.2			
	SKS		000/6500				
	F250 4X4	Pi			11	11	. 11
	RKL	60	000/6500	14.8			
	RKL		00/6500	16.2*			
	SKS		000/6500	14.8			
	SKS	60	000/6500	16.2*			
746UR00A	Expedition 4X2	" 6t	000 13	.8/14.16	F75C-ADA	н	н
	Expedition 4X4	" 6!	500 15	.6/16.0@	•	n	u
			/10	6.2#			

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^{*} with air conditioning a with P255/70R16 A-T tires # with P265/70R17 A-T tires

[&]quot;NGINE FAMILY: VFM5.4J8G1FK

Mfgr. <u>FORD</u>	MOTOR COMPANY		Exhaust I	Engine Famil	y: <u>VFM5.4</u> .	J8G1FK	
						FM1155AYPG	
Engine Code T	'ypes: CA <u>X</u> 49S_	50S :	Evaporat:	ive Emission	s Family:_	VFM1160AYM	GD/MFD_
Exh Std: Tier	-0 Tier-1_X_	TLEV I	LEV U	LEV ZEV	EPA TI	ER-0 T	'IER-1
Evap Std: 50	K Useful Life	e with R/L_}	<u> </u>	se Exh Std:	Full In Use	<u>X</u> Alt I	n Use
Veh Class(es)	: PCLDT1	LDT2	MDV1	MDV2_ MD	V3_X MDV4	1 MDV5_	_
Single Cert S	td for Multi-Clas	ss Eng Fam:	<u> N/A</u>	(specify: N	/A, LDT1,MI	OV1,MDV2,ME	V3,MDV4)
Exh Cert Fuel	(s): Indo <u>X</u> Phi M85 CN	2 Diesel G LPG			40CFR 86.1	.13-90 o	or -94
Fuel Type(s):	Dedicated Gasoline_X_ D	Flex Fuel	_ Dual-F	uel	Other (s	specify)	
Hybrid: Type	A B C						
	<u>V-8</u> Disp						
angine coming		racement	<u> </u>	235 @ 425		o inches,	
Valves/Cyl: _	2	,	Rated HP	: <u>230 @ 425</u>	0 (Expedit	ion) RPM	
Engine: Fron	t_X_ Mid Rea	ar	Drive: 1	Fwd RWD	X 4WD-FT	4WD-P3	r x
J							
Exhaust Contr	ol System and Spe	ecial Featur	res <u>2 TWC/</u>	ZJSFI,ZHO2S) EGR		
			(Use	a abbreviati	ons per SA	E J1930 SE	P91)
Engine Code	Vehicle Models	Trans. Tv	oe ETW	DPA	Ignition	EGR	Catalvtic
	(if coded see						
	attachment)	•	•				
	1	1	.l	1			
746TR07A	F250 4X2	A			F75F-VD	F75E-AD	F75A-AD F75A-AF
	RKL (6950/7700 0	GVW)	6000/65	00 13.2			
	RKL (6950/7700 (
	SKS (6800/7500 (
	SKS (6800/7500 (
	F250 4X4	11			11	п	#1
	RKL (7200/7700 (GVW)	6000/65	00 14.8			
	RKL (7200/7700 (6000/65				
	SKS (7200/7700 (6000/65				
	SKS (7200/7700		6000/65				
746UR07A	Expedition 4X2	0	6000	13.8/14.1@	F75F-ADD	11	u
. 100400 / F	Expedition 4X4	11	6500	15.6/16.0@ /16.2#		п	tt
* with air conditi a with P255/70R16 # with P265/70R17	A-T tires						

ENGINE FAMILY: VFM5.4J8G1FK

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Migr. <u>FORD</u>	MOTOR COMPANY	Ex	naust Engi	ine Famil	y: <u>VFM5.4</u>	J8G1FK	
ř					7	/FM1155AVDG	B/DFB
Engine Code '	Types: CA <u>X</u> 49S_	50S Eva	aporative	Emission	s Family:_	VFM1160AYM	GD/MFD
Exh Std: Tie	r-0 Tier-1_X_	TLEVLEV	ULEV	zev	ЕРА Т	IER-0 1	rier-1
	OK Useful Life						
Veh Class(es)): PC LDT1	LDT2 MDV	1 MDV	2. MID	V3 X MIDV	4 MDV5_	
Single Cert S	Std for Multi-Clas	ss Eng Fam: <u>N</u>	/A_ (sp	ecify: N	/A, LDT1,M	DV1,MDV2,ME	OV3,MDV4)
Exh Cert Fuel	l(s): Indo <u>X</u> Ph2 M85 CNO	2 Diesel: G LPG	13 CCR 22	82 or	40CFR 86.	113-90 c	or -94
Fuel Type(s):	: Dedicated D: Gasoline_X D:	Flex Fuel	Dual-Fuel		Other (ano a i £\	
Hybrid: Type	B C	APU Cvcl	e (ea	Otto _Di	_ Other ()	specity)	
Engine Confid	V-8 Disp	lacement: 5.	4L (326)	I.i	ters (Cubi	C Inches	····
_			7	25 @ 425	0 (8050)		
Valves/Cyl: _	2	Rat	ed HP: 2	30 @ 425	0 (Expedit	ion) RPM	
Engine: From	nt <u>X</u> Mid Rea	ur Dri	ve: Fwd_	RWD_	X 4WD-FT	4WD-P1	r_ <u>x_</u>
Exhaust Contr	ol System and Spe	cial Features	2TWC(2) SF	I . 2H029(2)	EGR		
	-		(Use ab	breviatí	ons per SA	E J1930 SE	291)
Desire Cala	1						
	Vehicle Models (if coded see					EGR	
			or	or	(ECM/PCM)	System	Converter
CA/4931/3031	attachment)	m-manual	Test Wt	KTH5	Part No.	Part No.	Part No.
746UR10A	Expedition 4X2	" 6	000 13	.2/13.4@	F75F-ADE	41	n
	Expedition 4X4				11		п
				5.2#			

a with P255/70R16 A-T tires # with P265/70R17 A-T tires

<pre>Mfgr. FORD</pre>	MOTOR COMPANY	Ext	aust Engi	ne Fam	ily: <u>VFM5.4</u>	J8G1FK	
					•	VFM1155AYP	GB/PFB
Engine Code T	Types: CA <u>X</u> 49S_	50S Eva	porative	Emissi	ons Family:_	VFM1160AYN	1GD/MFD
Exh Std: Tier	r-0 Tier-1_X_	TLEV LEV	ULEV	Z	EV EPA T	'IER-0	TIER-1
Evap Std: 50	K Useful Lif	e with R/L_X_	In-Use E	xh Std	: Full In Us	e <u>X</u> Alt	In Use
Veh Class(es)	: PC LDT1	LDT2MDV	1MDV	2 . 1	MDV3 <u>X</u> MDV	4 MDV5	<u>. </u>
Single Cert S	Std for Mul.i-Cla	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,M	DV1,MDV2,M	DV3,MDV4)
Exh Cert Fuel	.(s): Indo <u>X</u> Ph M85 CN	2 Diesel: G LPG			or 40CFR 86.	113-90	or -94
Fuel Type(s):	Dedicated Gasoline_X_ D	Flex Fuel	Dual-Fuel		Other (specify)	
Hybrid: Type	e A B C						
	V-8 Disp						
	_				250 (F250)		
Valves/Cyl: _					250 (Expedit		
Engine: Fron	t_X Mid Re	ar Dri	ve: Fwd_	RW	D <u>X</u> 4WD-F1	4WD-E	T_X_
Enhaust Contu			20014	77700	(A) = a=		
Exhaust Contr	ol System and Sp	ecial reacures			tions per SA	AE J1930 SE	EP91)
			,		<u>-</u>		
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR	Catalytic
	(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.
746TR00A	F250 4X2	A			F75C-VA	F75E-AD	
	RKL (7700 GVWR)		6000	13.2			F75A-AF
	RKL (7700 GVWR)			14.5*			
	SKS (6800 GVWR)			13.2			
	SKS (7500 GVWR)		6000	13.2			
	SKS (7500 GVWR)		6000	14.5*			
	F250 4X4	. 11			ц	19	Ħ
	RKL (7700 GVWR)		6500	14.8			
	RKL (7200 GVWR)		6000	16.2*			
	RKL (7700 GVWR)		6000	16.2*			

ENGINE FAMILY: VFM5.4J8G1FK

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^{*} with air conditioning a with P255/70R16 A-T tires # with P265/70R17 A-T tires

Mfgr. <u>FORD</u>	MOTOR COMPANY	Ext	aust Eng:	ine Fam	ily: VFM5.4	JBG1FK	
y'					_	VFM1155AYP	GB/PFB
Engine Code 1	Types: CA <u>X</u> 49S_	50S Eva	porative	Emissi	ons Family:	VFM1160AY	MGD/MFD
Exh Std: Tier	-0 Tier-1_X_	TLEV LEV	ULEV	z	EV EPA T	'IER-0	TIER-1
Evap Std: 50	K Useful Life	e with R/L_X_	In-Use E	xh Std	: Full In Us	e <u>X</u> Alt	In Use
Veh Class(es)	: PC LDT1	LDT2 MDV	1MDV	72_	MDV3 <u>X</u> MDV	/4 MDV	5
Single Cert S	itd for Mulci-Clas	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,M	DV1,MDV2,M	1DV3,MDV4)
Exh Cert Fuel	(s): Indo X Phi				or 40CFR 86.	113-90	or -94
Fuel Type(s):	Dedicated	G LPG Flex Fuel	Ouner (sp Dual-Fuel	ecrcy)			
rucz rypc (b) .	Gasoline X D:				Other (specify)	
Hybrid: Type	. A B C	, APU Cycl	e (eg,	Otto,	Diesel, Turb	oine)	
	V-8 Disp		4L (326)		Liters (Cubi		· -
			2	35 @ 4	250 (F250)		
Valves/Cyl: _	2	Rat	ed HP: _2	30 @ 4	250 (Expedit	ion) RPM	
Engine: Fron	t_X_ Mid Rea	ar Dri	ve: Fwd_	RW	D <u>X</u> 4WD-F1	4WD-I	PT_X_
Exhaust Contr	ol System and Spe	ecial Features	2 TW(2) SE	т 2но29	A) ECB		
	or officer and obt	Jorda Pouduros.			tions per SA	E J1930 SI	EP91)
Engine Code	1 17-1-2-3 - 36-2-3-1		l norr	1	I + 1, 1	1	
	Vehicle Models (if coded see			DPA	Ignition (ECM/PCM)	•	Catalytic
•	attachment)		•		Part No.		
,,	1		1000 110	1	Laze no.	l rare no.	l zure ko.
746TR07A	Paga Aya	· A			Dara im	8888 35	
7461RU/A	F230 4A2	A			F75C-VD	F/5E-AD	F75A-AD F75A-AF
	RKL (7700 GVWR)		6000	13.2		÷	F/SA-AF
	RKL (7700 GVWR)			14.5*			
	RKL (6950 GVWR)		6000	13.2			
	SKS (6800 GVWR)		6000	13.2			
	SKS (7500 GVWR)		6000	13.2			
	SKS (7500 GVWR)		6000	14.5*			
	F250 4X4	II.			II	п	ď
	RKL (7700 GVWR)		6500			*	
	RKL (7200 GVWR)			16.2*			
	RKL (7700 GVWR)		6000	16.2*			

^{*} with air conditioning a with P255/70R16 A-T tires

[#] with P265/70R17 A-T tires