

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-678
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 1996 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TFM4.6V8GFEL Displacement: 4.6 Liters (280 Cubic Inches)

Exhaust Emission Control Systems and 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:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon 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:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.07	1.1	0.1	6.5
100,000	0.08	1.3	0.2	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 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 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).

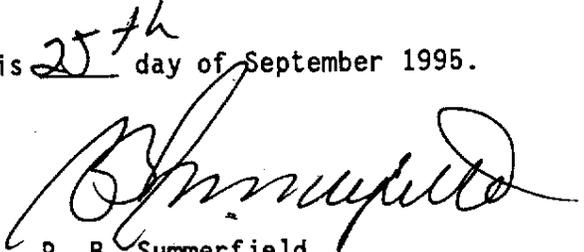
BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 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 25th day of September 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: TFM4.6V8GFEL
 Evap Standard: 50K ___ Useful Life with R/L X Evap Family: TFM1090AYMED
 Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 X
 Vehicle Class(es): PC X LDT1 ___ LDT2 ___ 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 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 Config: V-8 Liter (CID): 4.6 (280.0)
 Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT ___
 Exhaust ECS & Special Features: SFI/2HO2S(2)/EGR/2TWC(2)
 (Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No. -12A650-	EGR System Part No. 9D475/9D477	Catalyst Part No. -5E212-
618ERO5A	LINCOLN VFL1 <i>LIMO</i>	A	4250	8.2	F6AF-AB	F6AE-BA/F6AE-AE	F6AC-DA
	LINCOLN VFL2 <i>LIMO</i>	A	4750	8.1			
	LINCOLN VFL3 <i>LIMO</i>	A	5250	8.2			
	LINCOLN VFL4 <i>LIMO</i>	A	5500	7.8			
	LINCOLN VFL5 <i>LIMO</i>	A	6000 ¹	7.5			
	LINCOLN VFL6 (HEARSE)	A	6000 ¹	16.4			

¹ LIGHT DUTY VEHICLES OVER 5,750 LBS. LOADED VEHICLE WEIGHT SHALL BE TESTED AT A 5,500 LB. EQUIVALENT TEST WEIGHT PER 40 CFE PART 86.129.94

LMO PREP PACKAGE USES P225/75R15 TIRES

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: TFM4.6V8GFEL
 Evap Standard: 50K ___ Useful Life with R/L X Evap Family: TFM1090AYMED
 Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 X
 Vehicle Class(es): PC X LDT1 ___ LDT2 ___ 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 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 Config: V-8 Liter (CID): 4.6 (280.0)
 Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT ___
 Exhaust ECS & Special Features: SFI/2HO2S(2)/EGR/2TWC(2)
 (Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No. -12A650-	EGR System Part No. 9D475/9D477	Catalyst Part No. -5E212-
618ERO6A	LINCOLN VFL1 <i>Limo</i>	A	4250	8.2	F6AF-AC	F6AE-BA/F6AE-AE	F6AC-DA
	LINCOLN VFL2 <i>Limo</i>	A	4750	8.1			
	LINCOLN VFL3 <i>Limo</i>	A	5250	8.2			
	LINCOLN VFL4 <i>Limo</i>	A	5500	7.8			
	LINCOLN VFL5 <i>Limo</i>	A	6000 ¹	7.5			
	LINCOLN VFL6 (HEARSE)	A	6000 ¹	16.4			

¹ LIGHT DUTY VEHICLES OVER 5,750 LBS. LOADED VEHICLE WEIGHT SHALL BE TESTED AT A 5,500 LB. EQUIVALENT TEST WEIGHT PER 40 CFE PART 86.129.94

LIMO PREP PACKAGE USES P225/75R15 TIRES

ENGINE FAMILY: TFM4.6V8GFEL
 ISSUED: 8/14/95
 REVISED:

20.09.17.02 - 2

R/C 4.6-2V-013

E.O.# A-10-678

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: TFM4.6V8GFEL

Evap Standard: 50K X Useful Life with R/L _____ Evap Family: TFM1090AYMED

Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 X

Vehicle Class(es): PC X LDT1 ___ LDT2 ___ 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 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 Config: V-8 Liter (CID): 4.6 (280.0)

Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT ___

Exhaust ECS & Special Features: SFI/2HO2S(2)/EGR/2TWC(2)
(Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
					-12A650-	9D475/9D477	-5E212-
618ER10A	LINCOLN VFL1	A	4250	8.2	F6AF-AC	F6AE-BA/F6AE-AE	F6AC-DA
	LINCOLN VFL2	A	4750	8.1			
	LINCOLN VFL3	A	5250	8.2			
	LINCOLN VFL4	A	5500	7.8			
	LINCOLN VFL5	A	6000 ¹	7.5			
	LINCOLN VFL6 (HEARSE)	A	6000 ¹	16.4			

¹ LIGHT DUTY VEHICLES OVER 5,750 LBS. LOADED VEHICLE WEIGHT SHALL BE TESTED AT A 5,500 LB. EQUIVALENT TEST WEIGHT PER 40 CFE PART 86.129.94

LIMO PREP PACKAGE USES P225/75R15 TIRES

ENGINE FAMILY: TFM4.6V8GFEL
ISSUED: 12/4/94
REVISED:

E.O.# A-10-678

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company

Exhaust Engine Family: TFM4.6V8GFEL

Evap Standard: 50K X Useful Life with R/L _____ Evap Family: TFM1090AYMED

Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 X ___

Vehicle Class(es): PC X LDT1 ___ LDT2 ___ 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 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 Config: V-8 Liter (CID): 4.6 (280.0)

Engine: Front X Mid ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT ___

Exhaust ECS & Special Features: SFI/2HO2S(2)/EGR/2TWC(2)
(Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
					<u>-12A650-</u>	<u>9D475/9D477</u>	<u>-5E212-</u>
618ER11A	LINCOLN VFL1	A	4250	8.2	F6AF-AE	F6AE-BA/F6AE-AE	F6AC-DA
	LINCOLN VFL2	A	4750	8.1			
	LINCOLN VFL3	A	5250	8.2			
	LINCOLN VFL4	A	5500	7.8			
	LINCOLN VFL5	A	6000 ¹	7.5			
	LINCOLN VFL6 (HEARSE)	A	6000 ¹	16.4			

¹ LIGHT DUTY VEHICLES OVER 5,750 LBS. LOADED VEHICLE WEIGHT SHALL BE TESTED AT A 5,500 LB. EQUIVALENT TEST WEIGHT PER 40 CFE PART 86.129.94

LIMO PREP PACKAGE USES P225/75R15 TIRES

ENGINE FAMILY: TFM4.6V8GFEL
ISSUED: 5/24/96
REVISED:

20.09.17.02 - 5

R/C 4.6-2V-048