

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-722
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: VFM5.4J8G1EK Displacement: 5.4 Liters (326 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Three Way Catalytic Converter
- 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:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
5751-8500	50,000	0.39 (0.49)	5.0 (6.2)	1.1 (1.4)	12.5 (12.5)
	120,000	0.56 (n/a)	7.3 (n/a)	1.53 (n/a)	n/a

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

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
5751-8500	50,000	0.20	1.7	0.6	5.2
	120,000	0.28	2.2	0.65	n/a

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 based on a 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 50 percent of the manufacturer's projected sales of 1997 model-year California-certified medium-duty vehicles 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 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."

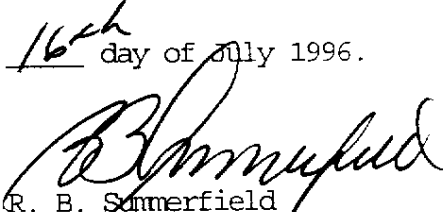
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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").

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 16th day of July 1996.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: VFM5.4J8G1EK

Evap Standard: 50K ___ Useful Life with R/L X Evap Family: VFM1155AYMGB
 R/L Test Procedure: Point Source

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

Vehicle Class(es): PC ___ LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 X MDV4 ___ MDV5 ___ Alt In Use X

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 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) _____

Service Accum: Mod AMA
 Engine Config: V-8 Liter (CID): 5.4 (326)

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

Exhaust ECS & Special Features: SFI/HO2S/EGR/TWC/2HO2S
 (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.
746QR00A/N	E-150 RVL	A	6000	16.0	F7UC-RA	F75E-CA	F7UA-5E212-KA
746QR00A/N	E-150 CWL	A	6500	15.7			
748QR00A/N	E-250 RVL	A	6500	17.3			
748QR00A/N	E-250 RVL	A	7000	17.0			
748QR00A/N	E-250 SVL	A	6500	16.2			
748QR00A/N	E-250 SVL	A	7000	17.9			
774UR00A/N	E-350 CWL	A	7500	17.5	F7UC-UA	F75E-CA	F7UA-5E212-KA
774UR00A/N	E-350 SVL	A	7500	17.7			
774UR00A/N	E-350 SWL	A	7500	17.0			
774UR00A/N	E-350 RVL	A	7500	18.8			
774VR00A/N	E-350 CWL	A	7500	17.5	F7UC-VA	F75E-CA	F7UA-5E212-KA
774VR00A/N	E-350 SVL	A	7500	17.7			
774VR00A/N	E-350 SWL	A	7500	17.0			
774VR00A/N	E-350 RVL	A	7500	18.8			

ENGINE FAMILY: VFM5.4J8G1EK

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ISSUED: JUN 27 1996

REVISED:

E.O.# A-10-722

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: VFM5.4J8G1EK
 Evap Standard: 50K ___ Useful Life with R/L X Evap Family: VFM1155AYMGB
 Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 ___
 Vehicle Class(es): PC ___ LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 X 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 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): 5.4 (326)
 Engine: Front X Mid ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT ___
 Exhaust ECS & Special Features: SFI/HO2S/EGR/TWC/HO2S
 (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.
746QR06A/N	E-150 RVL	A	6000	16.0	F7UC-RC	F75E-CA	F7UA-5E212-KA
746QR06A/N	E-150 CWL	A	6500	15.7			
748QR06A/N	E-250 RVL	A	6500	17.3			
748QR06A/N	E-250 RVL	A	7000	17.0			
748QR06A/N	E-250 SVL	A	6500	16.2			
748QR06A/N	E-250 SVL	A	7000	17.9			
774UR06A/N	E-350 CWL	A	7500	17.5	F7UC-UC	F75E-CA	F7UA-5E212-KA
774UR06A/N	E-350 SVL	A	7500	17.7			
774UR06A/N	E-350 SWL	A	7500	17.0			
774UR06A/N	E-350 RVL	A	7500	18.8			
774VR06A/N	E-350 CWL	A	7500	17.5	F7UC-VC	F75E-CA	F7UA-5E212-KA
774VR06A/N	E-350 SVL	A	7500	17.7			
774VR06A/N	E-350 SWL	A	7500	17.0			
774VR06A/N	E-350 RVL	A	7500	18.8			

ENGINE FAMILY: VFM5.4J8G1EK

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R/C 5.4-6

ISSUED: **JUL 26 1996**
 REVISED:

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
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Manufacturer: Ford Motor Company Exhaust Engine Family: VFM5.4J8G1EK
 Evap Standard: 50K ___ Useful Life with R/L X Evap Family: VFM1155AYMGB
 Exhaust Std: Tier 0 ___ Tier 1 X TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier 0 ___ Tier 1 ___
 Vehicle Class(es): PC ___ LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 X 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 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): 5.4 (326)
 Engine: Front X Mid. ___ Rear ___ Drive: FWD ___ RWD X 4WD-FT ___ 4WD-PT ___
 Exhaust ECS & Special Features: SFI/HO2S/EGR/TWC/2#02s
 (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.
746QR10A/N	E-150 RVL	A	6000	16.0	F7UC-RD	F75E-CA	F7UA-5E212-KA
746QR10A/N	E-150 CWL	A	6500	15.7			
748QR10A/N	E-250 RVL	A	6500	17.3			
748QR10A/N	E-250 RVL	A	7000	17.0			
748QR10A/N	E-250 SVL	A	6500	16.2			
748QR10A/N	E-250 SVL	A	7000	17.9			
774UR10A/N	E-350 CWL	A	7500	17.5	F7UC-UD	F75E-CA	F7UA-5E212-KA
774UR10A/N	E-350 SVL	A	7500	17.7			
774UR10A/N	E-350 SWL	A	7500	17.0			
774UR10A/N	E-350 RVL	A	7500	18.8			
774VR10A/N	E-350 CWL	A	7500	17.5	F7UC-VD	F75E-CA	F7UA-5E212-KA
774VR10A/N	E-350 SVL	A	7500	17.7			
774VR10A/N	E-350 SWL	A	7500	17.0			
774VR10A/N	E-350 RVL	A	7500	18.8			