

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-672
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 medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TFM7.5J8G1CK Displacement: 7.5 Liters (460 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 for this engine family in grams per mile are:

| <u>Test Weight (lbs.)</u> | <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> |
|---------------------------|--------------|---------------------------------|------------------------|------------------------|
| 5751-8500 | 50,000 | 0.39 | 5.0 | 1.1 |
| | 120,000 | 0.56 | 7.3 | 1.53 |

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

| <u>Test Weight (lbs.)</u> | <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> |
|---------------------------|--------------|---------------------------------|------------------------|------------------------|
| 5751-8500 | 50,000 | 0.17 | 1.8 | 0.2 |
| | 120,000 | 0.19 | 2.1 | 0.24 |

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 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 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".

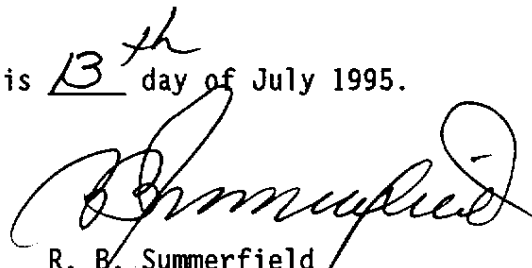
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the 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.

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 13th day of July 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM7.5J8G1cK (T7.5J)
 Engine Code Types: CA X 49S 50S Evaporative Emissions Family: TFM1090AYMOD
 Exh Std: Tier-0 Tier-1 X TLEV LEV ULEV ZEV EPA TIER-0 TIER-1
 Evap Std: 50K X Useful Life with R/L In-Use Exh Std: Full In Use Alt In Use X
 Veh 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 X Ph2 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 - 8 Displacement: 7.5L (460) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 245 @ 4000 RPM
 Engine: Front X Mid Rear Drive: Fwd RWD X 4WD-FT 4WD-PT X

Exhaust Control System and Special Features 2 HO2S, EGR, SFI, TWC(REDOX) H02S
 (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. |
|--|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 698NROON | F250 CRW 4WD | A | 7500 | * | F6TF-AKA | F6TE-CA | F6TA-EC |
| 698NROOA | F250 CRW 4WD | A | 7500 | | | | |
| 698NROON | F250 CRW 4WD | A | 7000 | | | | |
| 698NROOA | F250 RKL 4WD | A | 7000 | | | | |
| 698NROON | F250 SKL 4WD | A | 7500 | | | | |
| 698NROOA | F250 SKL 4WD | A | 7500 | | | | |
| 698NROON | F250 SKS 4WD | A | 7500 | | | | |
| 698NROOA | F250 SKS 4WD | A | 7500 | | | | |
| 698NROON | F350 CRW-SRW 4WD** | A | 7500 | | | | |
| 698NROOA | F350 CRW-SRW 4WD | A | 7500 | | | | |
| 698NROON | F350 RKL 4WD | A | 7000 | | | | |
| 698NROOA | F350 RKL 4WD | A | 7000 | | | | |
| 698SROON | E350 CWL 2WD | A | 7500 | * | F6UF-TA | F6TE-CA | F6TA-EC |
| 698SROOA | E350 CWL 2WD | A | 7500 | | | | |
| 698SROON | E350 SVL 2WD | A | 7500 | | | | |
| 698SROOA | E350 SVL 2WD | A | 7500 | | | | |
| 698SROON | E350 SWL-15P 2WD | A | 8000 | | | | |
| 698SROON | E350 SWL-12P 2WD | A | 8000 | | | | |

* See page 20.09.17.02 - 4

** Single Rear Wheel

Engine Family: T7.5J

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Date Issued: 5-17-95

Revised: 6-12-95

Last Character
in Engine Code:

N = no A/C
A = A/C

Vehicle Model Codes:

1st character:
R = regular
S = super
C = club

2nd character:
K = cab
V = van
W = wagon

3rd character:
S = short
L = long

SDS

Review Sheet for TFM7.5J8GICK / TFM1090AYMOD cont.

| 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. |
|--|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 698SRO0A | E350 SWL-15P 2WD | A | 8000 | * | F6UF-TA | F6TE-CA | F6TA-EC |
| 698SRO0A | E350 SWL-12P 2WD | A | 8000 | | | | |
| 698SRO0N | E350 RVL 2WD | A | 7500 | | | | |
| 698SRO0N | E350 RVL 2WD | A | 7500 | | | | |
| 698QRO0N | F350 CRW-SRW 2WD | A | 7500 | * | F6TF-AMA | F6TE-CA | F6TA-EC |
| 698QRO0A | F350 CRW-SRW 2WD | A | 7500 | | | | |
| 698QRO0N | F250 CRW 2WD | A | 7000 | | | | |
| 698QRO0A | F250 CRW 2WD | A | 7000 | | | | |
| 698QRO0N | F250 RKL 2WD | A | 7000 | | | | |
| 698QRO0A | F250 RKL 2WD | A | 7000 | | | | |
| 698QRO0N | F250 SKL 2WD | A | 7000 | | | | |
| 698QRO0A | F250 SKL 2WD | A | 7000 | | | | |
| 698QRO0N | F250 SKS 2WD | A | 7000 | | | | |
| 698QRO0A | F250 SKS 2WD | A | 7000 | | | | |
| 698QRO0N | F350 CRW-DRW 2WD | *** A | 8000 | | | | |
| 698QRO0A | F350 CRW-DRW 2WD | A | 8000 | | | | |
| 698QRO0N | F350 RKL-DRW 2WD | A | 7500 | | | | |
| 698QRO0A | F350 RKL-DRW 2WD | A | 7500 | | | | |
| 698QRO0N | F350 SKL-DRW 2WD | A | 7500 | | | | |
| 698QRO0A | F350 SKL-DRW 2WD | A | 8000 | | | | |
| 698QRO0N | F250 CRW 4WD | A | 7500 | | | | |
| 698QRO0A | F250 CRW 4WD | A | 7500 | | | | |
| 698QRO0N | F250 RKL 4WD | A | 7000 | | | | |
| 698QRO0A | F250 RKL 4WD | A | 7000 | | | | |
| 698QRO0N | F250 SKL 4WD | A | 7500 | | | | |
| 698QRO0A | F250 SKL 4WD | A | 7500 | | | | |
| 698QRO0N | F250 SKS 4WD | A | 7500 | | | | |
| 698QRO0A | F250 SKS 4WD | A | 7500 | | | | |
| 698QRO0N | F350 CRW-SRW 4WD | A | 7500 | | | | |
| 698QRO0A | F350 CRW-SRW 4WD | A | 7500 | | | | |
| 698QRO0N | F350 RKL 4WD | A | 7000 | | | | |
| 698QRO0A | F350 RKL 4WD | A | 7500 | | | | |
| 698QRO0A | F350 RKL 4WD | A | 7500 | | | | |
| 697QRO0N | F350 CRW-SRW 2WD | M | 7500 | * | F6TF-AGA | F6TE-CA | F6TA-EC |
| 697QRO0A | F350 CRW-SRW 2WD | M | 7500 | | | | |
| 697QRO0N | F250 CRW 2WD | M | 7000 | | | | |
| 697QRO0A | F250 CRW 2WD | M | 7000 | | | | |
| 697QRO0N | F250 RKL 2WD | M | 7000 | | | | |
| 697QRO0A | F250 RKL 2WD | M | 7000 | | | | |
| 697QRO0N | F250 SKL 2WD | M | 7000 | | | | |
| 697QRO0A | F250 SKL 2WD | M | 7000 | | | | |
| 697QRO0N | F250 SKS 2WD | M | 7000 | | | | |
| 697QRO0A | F250 SKS 2WD | M | 7000 | | | | |

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W = wagon

3rd character:
S = short
L = long

* See page 20.09.17.02 - 4
*** DRW = Dual Rear Wheels
Engine Family: T7.5J

3DS

| 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. |
|---|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
|---|--|--|----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|

| | | | | | | | |
|----------|------------------|---|------|---|----------|---------|---------|
| 697QR00N | F350 CRW-DRW 2WD | M | 8000 | * | F6TF-AGA | F6TE-CA | F6TA-EC |
| 697QR00A | F350 CRW-DRW 2WD | M | 8000 | | | | |
| 697QR00N | F350 RKL-DRW 2WD | M | 7500 | | | | |
| 697QR00A | F350 RKL-DRW 2WD | M | 7500 | | | | |
| 697QR00N | F350 SKL-DRW 2WD | M | 7500 | | | | |
| 697QR00A | F350 SKL-DRW 2WD | M | 7500 | | | | |
| 697QR00N | F250 CRW 4WD | M | 7500 | | | | |
| 697QR00A | F250 CRW 4WD | M | 7500 | | | | |
| 697QR00N | F250 RKL 4WD | M | 7000 | | | | |
| 697QR00A | F250 RKL 4WD | M | 7000 | | | | |
| 697QR00N | F250 SKL 4WD | M | 7500 | | | | |
| 697QR00A | F250 SKL 4WD | M | 7500 | | | | |
| 697QR00N | F250 SKS 4WD | M | 7500 | | | | |
| 697QR00A | F250 SKS 4WD | M | 7500 | | | | |
| 697QR00N | F350 CRW-SRW 4WD | M | 7500 | | | | |
| 697QR00A | F350 CRW-SRW 4WD | M | 7500 | | | | |
| 697QR00N | F350 RKL 4WD | M | 7000 | | | | |
| 697QR00A | F350 RKL 4WD | M | 7500 | | | | |
| 697QR00A | F350 RKL 4WD | M | 7500 | | | | |

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in Engine Code:

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* See page 20.09.17.02 - 4

Engine Family: T7.5J

20.09.17.02 - 3

Date Issued: 5-17-95

Revised:

SDS
1996 VEHICLE COVERAGE GUIDELINES
FOR VC#4 AND VC#5 TRUCK LINES

E.O.#A-10-672

| VEHICLE LINE | ETW LIMIT | NON A/C | | | A/C | | | | |
|--|---|---|-----------------------------------|---------------------------------------|---|---|-----------------------------------|---------------------------------------|---|
| | | CDT(Sec) | Code | DPA(HP) | TRLHP(HP) | CDT(Sec) | CODE | DPA(HP) | TRLHP(HP) |
| 1996 VEHICLE COVERAGE GUIDELINES > 8500# GVW FOR VC#4 AND VC#5 TRUCK LINES (ALL ITEMS ARE ALVW) | | | | | | | | | |
| F-SERIES (ND) | | | | | | | | | |
| F-250 4X2 HD & F-350 4X2 SRW (ALL TRANS) | \$ 5250 \$ 6500 \$ 7000 \$ 7500 | ----- 17.30 18.40 TBD | (CB) (C) (C) (C) | 20.0 14.60 15.00 TBD | ----- 23.16 23.45 TBD | ----- 16.28 17.34 TBD | (CB) (C) (C) (C) | 21.5 16.00 16.40 TBD | ----- 24.61 24.88 TBD |
| F-250 4X4 HD (ALL TRANS) | 5000 5500 \$ 6500 \$ 7000 \$ 7500 | ----- ----- TBD 17.53 17.53 | (CB) (CB) (C) (C) (C) | 20.0 20.0 TBD 16.09 16.09 | ----- ----- TBD 24.61 26.37 | ----- ----- TBD 16.59 16.59 | (CB) (CB) (C) (C) (C) | 21.5 21.5 TBD 17.49 17.49 | ----- ----- TBD 26.01 27.87 |
| F-350 4X4 SRW (ALL TRANS) | 6000 \$ 6500 \$ 7000 \$ 7500 | ----- TBD 17.06 17.98 | (CB) (C) (C) (C) | 20.0 TBD 17.6 17.6 | ----- TBD 25.29 25.71 | ----- TBD 16.18 17.09 | (CB) (C) (C) (C) | 21.5 TBD 19.03 19.03 | ----- TBD 26.67 27.05 |
| F-350 4X2 DRW | \$ 7500 \$ 8000 | 16.57 17.40 | (C) (C) | 16.0 17.9 | 27.90 28.34 | 18.01 16.64 | (C) (C) | 17.4 19.3 | 25.67 29.64 |
| F350 4X2 SRW CC | 6000 46.2 SQ.FT | 13.16 | (C) | 22.7 | 28.10 | 12.49 | (C) | 26.1 | 29.61 |
| F-350 4X2 DRW CC | 7000 84.6 SQ.FT | 9.34 | (C) | 32.4 | 46.20 | 9.07 | (C) | 33.8 | 47.57 |
| | 8000 9000 50.4 SQ.FT | 12.41 12.87 | (C) (C) | 24.18 26.5R | 39.74 38.32 | 11.99 12.30 | (C) (C) | 25.58 27.9R | 41.13 40.09 |
| Requirement dropped from Powertrain Line-up due to low volume | | | | | | | | | |
| E-SERIES (ND) | | | | | | | | | |
| ECON. E-250 CWL | 6000 | ----- | (CB) | 19.5 | ----- | ----- | (CB) | 21.0 | ----- |
| ECON. E250 (ND) | \$ 7000 | 19.04 | (C) | 14.5 | 22.66 | 17.91 | (C) | 15.9 | 24.09 |
| ECON. E-350 | 6000 | ----- | (CB) | 20.0 | ----- | ----- | (CB) | 21.5 | ----- |
| | \$ 7000 | TBD | (C) | TBD | #VALUE! | TBD | (C) | TBD | #VALUE! |
| | \$ 7500 | 18.77 | (C) | 16.1 | 24.63 | 17.8 | (C) | 17.5 | 25.97 |
| | \$ 8000 | 19.9 | (C) | 15.3 | 24.78 | 18.82 | (C) | 16.7 | 26.20 |
| ECONOLINE E-350 CA/SC SRW/DRW (ALL TRANS) | 7000 77.9 SQ.FT | 10.03 | (C) | 33 | 43.02 | 9.71 | (C) | 34.4 | 44.44 |
| STRIPPED CHASSIS (ALL TRANS) | 6000 6500 7500 53 SQ.FT. | ----- ----- ----- | (CB) (CB) (CB) | 26.5 26.5 26.5 | ----- ----- ----- | ----- ----- ----- | (CB) (CB) (CB) | 27.9 27.9 27.9 | ----- ----- ----- |

(E) = ESTIMATED (REG) = REGRESSED CDT
 (C) = CERTIFICATION TEST POINT (ADJ) = DPA ADJUST (HIGHER THAN CERT DPA)
 (CB) = ESTIMATED COOKBOOK DATA (MA) = MASS ADJUSTED CDT
 TBD = NEW VEHICLE PROGRAM - NOT CERTIFIED TO DATE.
 * = Indicates Sub Heading \$ = Indicates ALVW CDT/DPA

VC4-VCSTRK:CDT968.2

Engine Family: T7.5J

20.09.17.02 - 4

Issue Date: **MAY 17 1995**
 Revised: