State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-11
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

DETROIT DIESEL CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Detroit Diesel Corporation 1991 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

| Engine Family | Displacement Liters (Cubic Inches) | | Exhaust Emission Control Systems & Special Features |
|---|---|---|---|
| MDD0736FZH2 | 12.0 | (736) | Turbocharger<br>Charge Air Cooler<br>Powertrain Control Module |
| MDD0552FZG5 | 9.0 | (552) | Turbocharger<br>Charge Air Cooler<br>Powertrain Control Module |

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family:

| Hydrocarbons gm/bhp-hr | Carbon Monoxide gm/bhp-hr | Nitrogen Oxides gm/bhp-hr | Particulates gm/bhp-hr |
|---|---|---|---|
| 1.3 | 15.5 | 5.0 | 0.25 |

The following are the certification emission values for this engine family:

| Engine Family | Hydrocarbons gm/bhp-hr | Carbon Monoxide gm/bhp-hr | Nitrogen Oxides gm/bhp-hr | Particulates gm/bhp-hr |
|---|---|---|---|---|
| MDD0736FZH2 | 0.5 | 1.6 | 4.7 | 0.25 |
| MDD0552FZG5 | 0.4 | 2.0 | 4.8 | 0.25 |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Health and Safety Code Section 43205.5).

Engines 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 attachments.

Executed at El Monte, California this 20th day of March, 1991.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

17-MDD0736FZH2-5A

Executive Order No.: A-290-11

# 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## HEAVY-DUTY DIESEL ENGINES

Manufacturer: Detroit Diesel Corporation

Engine Family: MDD0736FZH2

Liter (CID): 12 (736)

Engine Type: V-8

Emission Control System and Special Features : PCME,CAC, TC

| ENGINE MODEL | FUEL INJECTION PUMP MFR PART NO. | ENGINE CODE INJECTOR MFR PART NO. | MAXIMUM RATED HP AT RPM | FUEL RATE mm3/STROKE (LBS/HR) | PART. TRAP/ CATALYST MFR. P/N |
|---|---|---|---|---|---|
| 8V-92TA DDEC | NA | 5A (1) 5234960 | 370@2100 | 145.0 (77.9) | |

(1) Diesel Technology Corporation

ISSUED: 02-04-91 REV. NO.:

17-MDD0552FZG5-7A

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# 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## HEAVY-DUTY DIESEL ENGINES

Manufacturer: Detroit Diesel Corporation

Engine Family: MDD0552FZG5

Liter (CID): 9 (552)

Engine Type: V-6

Emission Control System and Special Features : PCME,CAC, TC

| ENGINE MODEL | FUEL INJECTION PUMP MFR PART NO. | ENGINE CODE INJECTOR MFR PART NO. | MAXIMUM RATED HP AT RPM | FUEL RATE mm3/STROKE (LBS/HR) | PART. TRAP/ CATALYST MFR. P/N |
|---|---|---|---|---|---|
| 6V-92TA DDEC | NA | 1D (1) 5234985 | 350@2100 | 96.4 (134.7) | |
| | | 2D (1) 5234985 | 330@2100 | 90.3 (126.1) | |
| | | 3D (1) 5234985 | 300@2100 | 81.6 (114.0) | |
| | | 4D (1) 5234980 | 277@2100 | 76.3 (106.6) | |
| | | 5D (1) 5234980 | 253@2100 | 69.9 (97.6) | |
| | | 6D (1) 5234980 | 253@2100 | 69.9 (97.6) | |

(1) Diesel Technology Corporation

ISSUED: 02-26-91 REV. NO.: