

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-54

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-45-9;

IT IS ORDERED AND RESOLVED: That the following Detroit Diesel Corporation 1996 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters</u>	<u>(Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TDD12.EJDATW (SERIES-55)	12.0	732	Charge Air Cooler Turbocharger Powertrain Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

<u>Total Hydrocarbon</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake-horsepower-hour:

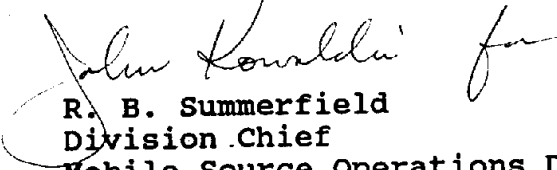
<u>Engine Family</u>	<u>Total Hydrocarbon</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TDD12.EJDATW (SERIES-55)	0.2	1.8	4.8	0.10

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 (Title 13, California Code of Regulations, Section 2035 et seq.).

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 12<sup>th</sup> day of November 1996.

  
R. B. Summerfield  
Division Chief  
Mobile Source Operations Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

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Manufacturer: Detroit Diesel Corporation

Engine Family: TDD12.EJDATW

Displacement: 12 Liters 732 Cubic Inches

Maximum Rated Power: 400 HP @ 1800 RPM

Engine Configuration: I-6

Ignition: Compression X Compression with Glow Plug      Spark     Fuel Type(s): Dedicated X Flex-Fuel      Dual-Fuel      Diesel X M100      M85       
CNG      LNG      LPG      Other (specify)     Diesel Cert Fuel: 13 CCR 2282      40 CFR 86.1313-90      40 CFR 86.1313-94 XPrimary Intended Service Class: LHD      MHD      HHD X Urban Bus     Exhaust ECS (include. MFI, TC, CAC): ECM/PCM, CAC, (TC)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm3/Stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX/ Catalytic Converter Part No.
<b>Series 55</b>						
1A	400@1800	220 (132)	5235920 23550604	23518645 23518743		
2A	365@1800	193 (116)				
3A	365@2000	179 (120)				
4A	400@2000	201 (134)				