

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-42

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 1995 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 (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
SDD8.5EJDARA (Series 50)	8.5 (518)	Powertrain Control Module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

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

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

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

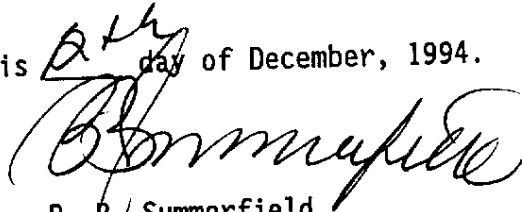
<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
SDD8.5EJDARA (Series 50)	0.1	1.7	4.8	0.09

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 *21<sup>st</sup>* day of December, 1994.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

17-SDD8.5EJDARA-5A

E.O. No. A-290-42

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

Page 1 of 1

Manufacturer: Detroit Diesel Corporation

Engine Family: SDD8.5EJDARA

Displacement: 8.5 Liters 518 Cubic Inches

Maximum Rated Power: 300 HP @ 2100 RPM

Engine Configuration: I-4

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 X

Primary Intended Service Class: LHD      MHD      HHD X Urban Bus     

Exhaust ECS (include. MFI, TC, CAC): PCM, CAC, (TC)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @Rated HP mm <sup>3</sup> /Stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
8.5L 1D						
			RESERVED FOR LATER			
2D						
			RESERVED FOR LATER			
3D	300@2100	215.2 (100.2)	5235550	23513553		
4D	300@1800	239.1 (95.4)	5235550	23513553		
5D	275@2100	197.9 (92.2)	5235550	23513553		
6D	250@2100	179.3 (83.5)	5235550	23513553		