State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-50

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 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: Compressed Natural Gas (CNG only)

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TDD8.5FZKORB (S50-CNG)	8.5	518	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:

Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
Hydroc <u>arbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
1.2	15.5	4.0	0.05

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

Engine	Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
TDD8.5FZKORB (S50-CNG)	0.7	2.5	2.7	0.05

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.).

BE IT FURTHER RESOLVED: That the listed engine family is certified for use in urban buses.

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 _

day of November 1995.

Assistant Division Chief Mobile Source Division

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

Maximum Rate Ignition: Comp Fuel Type(s):	Detroit Diese 8.5 Liters ed Power: 275 pression Dedicated _X CNG _X_ Liel: 13 CCR 2	518 Cubic Inc HP @ 2100 RP Compression Flex-Fuel NG LPG _ 282 40 0	ches M on with Glow Dual-Fuel Other (s CFR 86.1313	Engine I Plug S Diesel pecify)90 40 C	FR 86.1313-9	guration: I-4 M85 94 _X_
Primary Intend	led Service Cl include, MFI.	ass:	MHD CM/PCM, CA	HHD U AC, (TC)	roan busA_	_
Engine Model		Fuel Rate @Rated HP	Fuel Pump & Injector	ECM/PCM Part No.	EGR Valve Part No.	PTOX/ Catalytic Converter Part No.
SERIES 50G B	<u>US</u>				 -	
1G	275@2100	NA (95.4)	23517613	23518269(1)(2))	
2G	260@2100	NA (91.0)	23517613	23518269(1)(2))	

NA: Data not applicable to gaseous fueled engine.

Date Issued: 05-15-95

Rev.: