State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-67

Relating to Certification of New Heavy-Duty Engines and Vehicles

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 1998 model-year Detroit Diesel Corporation diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

.Fuel Type: Compressed Natrual Gas (CNG)

		Displacement	Exhaust Emission Control
Engine Family	Liters	(Cubic Inches)	Systems and Special Features
WDDXH08.5FJF	8.5	(518)	Turbocharger
(Series-50 bus)			Charge Air Cooler Powertrain Control Module
			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>
<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	
1.3	15.5	4.0	0.05

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

Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
0.7	2.4	2.6	0.02

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 models are certified for used in urban bus.

BE IT FURTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

- 1. Any engine which employs a defeat device shall not be covered by this Executive Order.
- 2. Within 90 days following the issuance of this Executive Order, the manufacturer must show cause, to the satisfaction of the Executive Officer or his designee, that the strategy for fuel injection timing, including timing during the fuel economy mode, is not a defeat device.

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 February 1998.

R. B. Summerfield, Chief

Mobile Source Operations Division

LARGE ENCINE MODI SUMMAR

Process Code: New Submission

Manufacturer: Detroit Diesel Corporation

	8.Fuel Rate: 9.Emission Control bs/hr)@peak torque Device Per SAE J1930	TZ, PCM, CAG
	8.Fuel Rate: (lbs/hr)@peak ton	66.5 66.5
Series 50G	7.Fuel Rate: mm/stroke@peak torque	
Family Name:	6.Torque @ RPM (SEA Gross)	890@1200 890@1200
Manufacturer Family Name:	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	94.0 94.0
	4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only)	
WDDXH08.5FJF	@RPM Gross)	275@2100 275@2100
		Series 50G
FPA Engine Family:	1. Engine Code	* 919 920

* 49 state only