(Page 1 of 2)

#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-290-60

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 1997 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: Diesel

<u>Engine Family</u>		Displacement (Cubic Inches)	Exhaust Emission Control Systems and Special Features
VDD3.8C8DABA	3.8	(232)	Turbocharger Charge Air Cooler Powertrain Control Module Oxidation Catalytic Converter

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:

Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</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:

Total	Carbon	Nitrogen	<u>Particulates</u>	
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>		
0.1	• 0.4	3.7	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.). DETROIT DIESEL DORPORATION

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  $\frac{19}{19}$  day of February 1997.

R. B. Summerfield, Chief Mobile Source Operations Division

#### 17-VDD3.8C8DABA-17A

# E.O. No. A-290-60

25143901

# 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Page 1 of 1

Manufacturer: Detroit Diesel Corporation				Engine Family: VDD3.8C8DABA			
Displacement:	splacement: 3.8 Liters 232 Cubic Inches						
Maximum Rated Power: 160 HP @ 3500 RPM Engine C				Engine Configu	ration: I-6		
Ignition: Compression X Compression with Glow Plug Spark							
Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Diesel X M100 M85					M85		
CNG LNG LPG Other (specify)							
Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 X						_X_	
Primary Intended Service Class: LHD X MHD HHD Urban Bus							
Exhaust ECS (include. MFI, TC, CAC): ECM/PCM, CAC, (TC),OC							
						<u> </u>	
• =		Fuel Rate	Fuel Pump		EGR	PTOX/	
Engine Model	Rated HP	@ Rated HP	& Injector	ECM/PCM		Catalytic	
(Eng Code)	@ RPM	mm <sup>3</sup> /Stroke	Part No.	Part No.	Part No.	Converter	
		(lbs/hr)				Part No.	
S	ERIES VM 638						

15062018F 15062019F C5020046A A281010892

64.0

(74.6)

Date Issued: 01-03-97 Rev.:

.

160@3500

1V