## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-290-55

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 1997 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

<u>Fuel Type</u>: Diesel

Engine Family	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
VDD11.EJDARA (SERIES-60)	11.1	677	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:

Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Hydrocarbon</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:

Engine	Total	Carbon	Nitrogen	<u>Particulates</u>
Family H	ydrocarbon	<u>Monoxide</u>	<u>Oxides</u>	
VDD11.EJDARA (SERIES-60)	0.1	2.1	5.0	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 //

day of December 1996.

R. B. Summerfie d, Chief
Mobile Source Operations Division

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

Primary 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.
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ıH •	365@1800	189.1	5235580	23518645		
•••	330@	(113.2)	1	23518743		
2H	350@1800	180.7	i	1		
		(108.2)	i	į		
3H	350@2100	161.9	İ	i		
		(113.1)	İ	İ		
4H	330@2100	152.6	i	İ		
		(106.6)	Ì	Ì		
5H	330@1800	170.4		1		
		(102.0)	1	1		
6H	330@1700	179.2		1		
		(101.3)	į			
11	350@2100	161.9	!	1		
		(113.1)	•			
21	350@1800	180.7	1	1		
		(108.2)				
31	330@1800	170.4				
		(102.0)				
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Date Issued: 10-01-96 Re-