

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-15

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 1992 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
NDD12.7FZA9	12.7	775	Turbocharger Charge Air Cooler Powertrain Control Module

Engine models and codes are listed on attachments.

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

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

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

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
NDD12.7FZA9	0.1	2.3	4.8	0.23

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 21st day of November, 1991.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer: Detroit Diesel Corporation

Engine Family: NDD12.7FZA9

Liter (CID): 12.7 (775)

Fuel Type: Diesel No. 2

Engine Config.: I-6

Emission Control System and (Special Features): PCME,CAC, , (TC)

ENGINE MODEL (ENG. CODE)	FUEL INJECTION		MAXIMUM RATED HP AT RPM	FUEL RATE mm ³ /STROKE (LBS/HR)	PART. TRAP/ CATALYST MFR. P/N
	PUMP MFR PART NO.	INJECTOR MFR PART NO.			
<u>12.7L</u>					
8A	NA	(1) 5234940	365@2100	168.8 (117.9)	
9A	NA	(1) 5234940	365@1800	189.6 (113.5)	
10A	NA	(1) 5234940	355@2100	164.3 (114.7)	
11A	NA	(1) 5234940	355@1800	184.4 (110.4)	
12A	NA	(1) 5234940	400@1950	195.6 (126.8)	
13A	NA	(1) 5234940	375@1800	194.8 (116.6)	
13B			350@1800	181.8 (108.8)	

(1) Diesel Technology Corporation

ISSUED: 08-30-91

REV. NO.:

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Engine Family: NDD12.7FZA9

Liter (CID): 12.7 (775)

Fuel Type: Diesel No. 2

Engine Config.: I-6

Emission Control System and (Special Features): PCME, CAC, (TC)

ENGINE MODEL (ENG. CODE)	FUEL INJECTION		MAXIMUM RATED HP AT RPM	FUEL RATE mm ³ /STROKE (LBS/HR)	PART. TRAP/ CATALYST MFR. P/N
	PUMP MFR PART NO.	INJECTOR MFR PART NO.			
<u>12.7L</u>					
1A	NA	(1) 5234970	450@2100	212.0 (148.1)	
2A	NA	(1) 5234970	450@1800	236.8 (141.8)	
3A	NA	(1) 5234970	425@2100	197.8 (138.1)	
4A	NA	(1) 5234940	400@2100	185.0 (129.2)	
5A	NA	(1) 5234940	425@1800	221.5 (132.6)	
5B	NA		365@1800	189.6 (113.5)	
5C	NA		355@1800	184.4 (110.4)	
6A	NA	(1) 5234940	400@2100	185.0 (129.2)	
7A	NA	(1) 5234940	400@1800	207.8 (124.4)	
7B	NA		365@1800	189.6 (113.5)	
7C	NA		355@1800	184.4 (110.4)	

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