

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-64

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: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
WDDXH12.7EGD (Series-60)	12.7 (775)	Turbocharger Charge Air Cooler 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:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	4.0	0.10

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

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
0.2	1.5	3.9	0.10

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 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 17th day of February 1998.



R. B. Summerfield, Chief
Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

A-290-64

Manufacturer: Detroit Diesel Corporation

Process Code: New Submission

EPA Engine Family: WDDXH12.7EGD

Manufacturer Family Name: Series 60, 12.7 L

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
879	Series 60	430@1800	226.0	135.3	1450@1200	251.4	100.3	TC, PGM, CAC
881		400@1800	209.7	125.5	1450@1200	251.4	100.3	
883		370@1800	193.3	115.7	1450@1200	251.4	100.3	
884		360@1800	187.9	112.5	1450@1200	251.4	100.3	
878		430@2100	209.4	146.2	1450@1200	251.4	100.3	
880		400@2100	194.0	135.5	1450@1200	251.4	100.3	
882		370@2100	179.1	125.1	1450@1200	251.4	100.3	
870		470@1800	248.2	148.6	1550@1200	268.2	107.0	
872		430@1800	226.0	135.3	1550@1200	268.2	107.0	
874		400@1800	209.7	125.5	1550@1200	268.2	107.0	
876		370@1800	193.3	115.7	1550@1200	268.2	107.0	
877		360@1800	187.9	112.5	1550@1200	268.2	107.0	
868		470@2100	229.6	160.3	1550@1200	268.2	107.0	
871		430@2100	209.4	146.2	1550@1200	268.2	107.0	
873		400@2100	194.0	135.5	1550@1200	268.2	107.0	
875		370@2100	179.1	125.1	1550@1200	268.2	107.0	
893		370/430-1800			1450@1200			
892		370/430-2100			1450@1200			
894		360/430-1800			1450@1200			
891		360/430-1800			1550@1200			
890		370/430-1800			1550@1200			
889		370/430-2100			1550@1200			
887		430/470-2100			1550@1200			
888		430/470-1800			1550@1200			
PREMIUM RATINGS								
863		500@2100	242.7	169.5	1650@1200	291.0	116.1	
864		470@2100	226.8	158.4	1650@1200	291.0	116.1	
865		430@2100	205.6	143.6	1650@1200	291.0	116.1	
866		430@1800	227.0	135.9	1650@1200	291.0	116.1	
868		470@2100	226.8	158.4	1550@1200	273.2	109.0	
867		500@2100	242.7	169.5	1550@1200	273.2	109.0	
885		430/500-2100			1650@1200			
886		470/500-2100			1550@1200			

TC, PGM, CAC

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