

State of California
AIR RESOURCES BOARD

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EXECUTIVE ORDER A-232-15

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

RENAULT VEHICULES INDUSTRIELS

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 Renault Vehicules Industriels 1991 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>
MRE0335FAA4	6.2	377	Charge Air Cooler Turbocharger Smoke Puff Limiter

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>
MRE0335FAA4	0.2	2.3	4.6	0.22

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 (Health and Safety Code Section 43205.5).

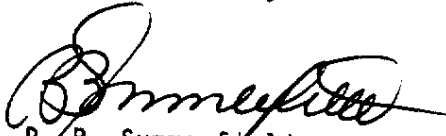
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 2nd day of May, 1991.



R. B. Summerfeld
Assistant Division Chief
Mobile Source Division

1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer RENAULT VEHICULES INDUSTRIELS Engine Family MRE0335FAA4
 Liter (CID) 6.174 (377) Engine-Type In-line 6
 Emission Control Sys. and (Special Features) SPL TC CAC

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/stroke (lbs/Hr)
MIDRO60226L	R. Bosch Gmbh 5000 684 386	R. Bosch Gmbh 5000 684 556	180 2500	87 (71.0)	1300 475	99 (42.0)
MIDRO60226M	5000 684 444	5000 684 559	210 2350	100 (76.2)	1400 560	114 (51.9)

Issue Date :Nov.90	Submitted by Renault Vehicules Industriels					pg.16.12.00
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