

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-232-22

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Renault Vehicules Industriels 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>
TR3377D8DABW	6.2 (377)	Turbocharger Smoke Puff Limiter Charge Air Cooler Oxidation Catalytic Converter Engine 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>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</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:

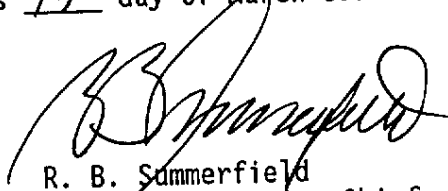
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TR3377D8DABW	0.1	0.8	4.7	0.07

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 14<sup>th</sup> day of March 1996.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: RENAULT VI Engine Family: TR337D8DABW  
 Displacement: 6.2 Liters 317 Cubic Inches  
 All Eng Codes in Eng Family: CA 49S 50S X Strokes Cycle: 4 Valves Cylinder: 2  
 Ignition: Compression X Compression with Glow Plug      Spark       
 Fuel Type(s): Dedicated X Flex-Fuel      Dual-Fuel      Bi-Fuel      Diesel X CNG       
                   LNG      LPG      M85      M100      Other (specify)       
 Diesel Cert Fuel: 13 CCR 2282      40 CFR 86.1313-90      40 CFR 86.1313-94 X  
 Maximum Rated Power: 220 HP @ 2350 RPM Engine Configuration: I-6  
 Exhaust ECS (e.g., OC, EGR, PTOX, IFI, TC, CAC): TC; CAC; SPL; OC, ECM  
 (Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm <sup>3</sup> / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
MIDR060226 M511	220 at 2350	107 +/- 3 (82.48)	<u>PUMP</u> BOSCH PES6P 120A 320RS8028  <u>REGULATOR</u> BOSCH RQV275- 1175PA1101K  <u>INJECTOR</u> <u>ASSEMBLY</u> BOSCH 0432131761  <u>NOZZLE</u> BOSCH DLLA149P460	<u>ELECTRONIC</u> <u>AUTO ADVANCE</u> RENAULT VI 5010691980  <u>ECM</u> RENAULT VI 5010214430  <u>SOFTWARE</u> RENAULT VI 5010258154		<u>CATALYST</u> ENGELHARD P217350 6"  <u>MUFFLER</u> DONALDSON DC M 100785 RENAULT VI 5010230455

Date Issued: DEC 95

Revisions: