

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-243-16

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

VOLVO TRUCK 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 Volvo Truck Corporation 1994 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>
RVT12.EJDBRA (VE-D12)	12.1	(740)	Engine Control Module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

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

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

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

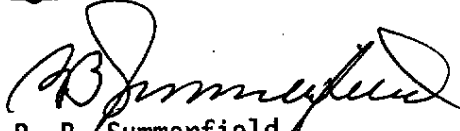
<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
RVT12.EJDBRA (VE-D12)	0.1	2.5	5.0	0.08

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 31<sup>st</sup> day of March, 1994.

  
R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

**1994 AIR RESOURCE BOARD SUPPLEMENTAL DATA SHEET E.O.#A-243-16**  
**HEAVY-DUTY DIESEL ENGINES**

Manufacturer: Volvo Truck Corporation Engine Family: RVT12.EJDBRA  
 Liters (CID): 12.1 (740) Fuel Type: Diesel Engine Config.: 6 cyl. in line  
 Exhaust ECS & Special Features ( ECM/PCM, PTOX, IPI, etc. ): ECM, L TC, CAC, ECM  
 (use abbreviations per SAE J1930 MAY91)

Engine Model ( Eng. Code )	Rated HP @ RPM	Fuel Rate @ Rated HP mm. <sup>3</sup> / stroke ( lbs / hr )	Fuel Pump & Injector P/N	ECM/PCM P/N	Part.Trap/ Catalyst P/N
VE D12-370 ( I )	370 / 1700	212 (118.9)	Unit Injectors 1547909	With EPG 1677605 With VEB 1677835	----
VE D12-415 ( II )	415 / 1700	239 (134.0)	-----"	With EPG 1677604 With VEB 1677834	----
VE D12-425 ( III )	425 / 1700	245 (137.3)	-----"	With EPG 8148438 With VEB 8148439	----
VE D12-370 VT ( IV )	370/1700	212 (118.9)	-----"	With EPG 8148386 With VEB 8148389	----
VE D12-415 VT ( V )	415/1700	239 (134.0)	-----"	With EPG 8148385 With VEB 8148388	----

EPG = Exhaust Pressure Governor  
 VEB = Volvo Engine Brake