State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-242-28-1

Relating to Certification of New Heavy-Duty Engines and Vehicles

VOLVO TRUCK CORPORATION

Pursuant to the authority vested in the Air Resources Board at Sections 43100, 43101, and 43102 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and . 39516 of the Health and Safety Code and Executive Order G-45-9; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and Volvo Truck Corporation and any modifications to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following 1999 model-year Volvo Truck Corporation diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle-weight-rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

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Engine Family		lacement <u>Cubic Inches</u>	Exhaust Emission Control Systems and Special Features
XVTXH07.399B (VE D7C)	7.3	447	Turbocharger Charge Air Cooler Electronic Control Module

The engine models and codes are listed on attachments.

BE IT ORDERED AND RESOLVED: That the following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour under the Federal Test Procedure ("FTP") for Heavy-Duty Diesel Engines (Title 13, California Code of Regulations, Section 1956.8):

	Total	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
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BE IT FURTHER RESOLVED: That pursuant to the Settlement Agreement and any modifications thereof, the aforementioned engine family is also subject to the following emission standards, in grams per brake horsepower-hour, under the EURO III tests in the Settlement Agreement, and a "Not-to-Exceed" nitrogen oxides emission standard of 6.25 grams per brake horsepower-hour:

	Total	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	Monoxide	Oxides	<u>Matter</u>
"EURO III"	1.3	15.5	5.0	0.10

BE IT FURTHER RESOLVED: That the following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

	Total	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
"FTP"	0.1	1.0	4.0	0.09
"EURO III"	0.1	0.5	4.4	0.07

VOLVO TRUCK CORPORATION

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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, Sections 2035 et seq.).

BE IT FURTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

- 1. The Settlement Agreement is in effect.
- Volvo Truck Corp. is in compliance with all applicable certification requirements of the Settlement Agreement.
- 3. Pursuant to Paragraph 16A of the Settlement Agreement, no more than 1,058 light heavy-duty, medium heavy-duty and urban bus engines ("LMB Engines") produced by the manufacturer between July 1, 1999 and December 31, 1999 shall be subject to the aforementioned emission standards, including the "Not-to-Exceed" nitrogen oxides emission standard, under the Euro III tests.

Engines certified under this Executive Order must conform to all applicable California emission regulations and to all applicable terms and conditions of the Settlement Agreement.

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

Executive Order A-242-28 dated September 16, 1999, is superseded by Executive Order A-242-28-1.

Executed at El Monte, California this _____ day of November 1999.

R. B. Summerfield, Chief Mobile Source Operations Division

Engine Model 🌾 mmary Form

Volvo Truck Corp.	On-highway HDDE	EPA Engine Family. XVTXH07.399B	VE D7C
Manufacturer;	Engine category:	EPA Engine Family.	Mfr Family Name:

Process Code:	New Submission							
1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (Ibs/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	8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930
- =	VE D7C300 VE D7C275	300@2200 275@2200	160,0 139,0	116,2 101,4	950lbft@1300 800lbft@1300	180,0 150,0	77,5 64,6	TC, EM, ECM, CAC
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