

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-243-9
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 1991 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems & Special Features</u>
MVT12.0FAA0	12.0	(730)	Turbocharger Charge Air Cooler
MVT06.7FAA1	6.7	(409)	Turbocharger Charge Air Cooler Smoke Puff Limiter

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine family:

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
1.3	15.5	5.0	0.25

The following are the certification emission values for these engine family:

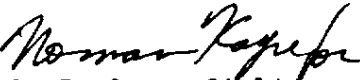
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
MVT12.0FAA0	0.4	1.7	4.9	0.23
MVT06.7FAA1	0.4	1.7	4.7	0.16

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).

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 27th day of February, 1991.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

Date: _____ ARB Rep _____

VII. CAL _____ 6.7A _____ 1

Issue Date: _____

Revision Number and Date: _____

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

MHDD

Manufacturer Volvo Truck Corporation Engine Family MVT06.7FAA1

Liters (CID) 6.7 (409) Engine Type L-6

Emission Control Sys. & Special Features SPL, TC, CAC
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke mm ³ /stroke	Part. Trap/ Catalyst Mfr. P/N
TD73EA	Bosch 477460	Bosch 477504	215/2400	107	---
TD73EB	Bosch 477487	Bosch 477504	250/2400	123	---

TY 1031

Revisions:
042090

Date: ARB Rep

VII CAL 12.0A 1

Issue Date:

Revision Number and Date:

E.O.# A-243-9

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

HHDD

Manufacturer Volvo Truck Corporation Engine Family MVT12.OFAAO

Liters (CID) 12.0 (730) Engine Type L-6

Emission Control Sys. & Special Features TC, CAC
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke mm ³ /stroke	Part. Trap/ Catalyst Mfr. P/N
TD123EA	Bosch 478582 (Control Unit Data Set 478686)	Bosch 478605	300/1900	177	---
TD123EB	Bosch 478582 (Control Unit Data Set 478687)	Bosch 478605	330/1900	194	---
TD123EC	Bosch 478582 (Control Unit Data Set 478688)	Bosch 478605	360/1900	211	---

Revisions:
042090