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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-243-7

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 1988 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Engine Family		lacement Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JVT0409FPA7	6.7	(409)	Smoke Puff Limiter (Diesel Injection - Direct) (Turbocharger) (Intercooler)
JVT0586FPA8	9.6	(586)	Smoke Puff Limiter (Diesel Injection - Direct) (Turbocharger) (Intercooler)
JVT0730FPA4	12.0	(730)	Smoke Puff Limiter (Diesel Injection - Direct) (Turbocharger) (Intercooler)

Engine models and codes are listed on attachments.

The following are emission standards for these engine families:

Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	6.0	0.60

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

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
JVT0409FPA7	0.9	3.5	5.4	0.54
JVT0586FPA8	0.6	2.8	5.8	0.40
JVT0730FPA4	0.5	1.7	5.8	0.47

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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.

Executed at El Monte, California this \_\_\_\_\_\_22 day of October, 1987.

Mobile Source Division

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		HEAVY-DI	JTY DIESEL	ENGINES	SHEET	4400
anufactu	rer Volvo Tru	ck Corporation	n í	Fnaina Esmilu	1710400	)CD47
				g. Type		PPA7
	Control Sys. a					
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	Fuel				1	
	Injection Pump	Injector	Maximum	Fuel Rate	Maximum	5
Engine Model	Mfr. Part Number		Rated HP	mm <sup>3</sup> /stroke (lbs/Hr)		Fuel Rate mm <sup>3</sup> /stroke
- <del></del>				(105/81)	at RPM	(lbs/Hr)
TD71FCQ	Bosch 477138	Bosch 421479	225 2400	113	605	125
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		newy t-u	UTY DIESEL	ENGINES		MUDD
lanufactu	rér Volvo Truc	k Corporation	<del></del>	Engine Family	JVT0586F	PA8
iter (CI	586 CID		En	g. Type	L-6	
mission (	Control Sys. a	nd (Special )	Features)_	SPL, (DID, IC	, MFI, TC)	
	<u> </u>	<del></del>	<del>                                     </del>	<del></del>	<b>T</b>	<b>7</b>
Engine Model	Fuel Injection Pump Mfr. Part Number		Maximum Rated HP at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)
D102FCQ	Bosch 422983	Bosch 422954	300 2100	163 (111.8)	955 1200	187 (73.3)
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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES HEAVY-DUTY DIESEL ENGINES								
Manufacturer Volvo Truck Corporation Engine Family JVT0730FPA4								
iter (CI	D)730 CID	· · · · · · · · · · · · · · · · · · ·	En	g. Type	L-6			
imission (	Control Sys. a	ind (Special )	Features)_	SPL, (DID, IC	C, MFI, TC	)		
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Engine Model	Fuel Injection Pump Mfr. Part Number		Maximum Rated HP at RPM	Fuel Rate mm <sup>3</sup> /stroke {lbs/Hr}	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)		
TD122FEQ	Bosch 478057	Bosch 422954	340 1800	203 (119.3)	1170 1200	222 (87.1)		
TD122FGQ	Bosch 478056	Bosch 422954	355 2100	194 (133.3)	1170 1200	222 (87.1)		
TD122FJQ	Bosch 478223	Bosch 422954	345 1900	199 (123.7)	1170 1200	222 (87.1)		
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