State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-14-40 Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

AB VOLVO PENTA

Pursuant to the authority vested in the Air Resources Board at Sections 43000.5, 43013, and 43018 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;

IT IS ORDERED AND RESOLVED: That the following diesel engines and exhaust emission control systems produced by the manufacturer are certified as described below for use in heavy-duty off-road equipment:

Model Year: 2000

Typical Equipment Usage: Generator Set

Engine Power Ratings Range: 175 – 750 horsepower, inclusive

Fuel Type: Diesel

	Displacement		Exhaust Emission Control		
Engine Family	<u>Liters</u>	Cubic Inches	Systems and Special Features		
YVPXL07.3ACB	7.3	445	Turbocharger		
(TAD740GE)			Charge Air Cooler		
			Smoke Puff Limiter		
			Electronic Control Module		

The engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values in grams per brake horsepower-hour (g/bhp-h) for total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

	<u>Exha</u> u	naust Emissions (g/hp-h)			Exhaust Emissions (g/hp-h) Smoke Opacity (%)				%)
Standard Certification	<u>THC</u> 1.0 0.2	<u>CO</u> 8.5 0.7	<u>NOx</u> 6.9 5.8	<u>PM</u> 0.4 0.1	<u>Accel</u> 20	<u>Lug</u> 15 5	<u>Peak</u> 50 		

BE IT FURTHER RESOLVED: That the listed engine models comply with "Exhaust Emission Standards and Test Procedures -- Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels --1996 and Later Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned modelyear.

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 2425 *et seq.*).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 1/2 day of March 2000.

R. B. Summerfield, Chief Mobile Source Operations Division

Engine Model Jummary Form

n R -14-40

Manufacturer:AB Volvo PentaEngine category:Nonroad ClEPA Engine FamiyYVPXL Ø 7, 3ACØ.Mfr Family Name:TÄD 7H0 GEProcess Code:New Submission

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1.Engine Code	LEngine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak 8. torque (Ibs/hr		8.Fuel Rate: 9.Emission Control bs/hr)@peak torque Device Per SAE J1930	introl J1930
YVPXL07.3ACB TAD740GE	TAD740GE	301@1500	200@301	100	1056@1500	200@1056		100 ECN SUL, TC, CNC	83
YVPXL07.3ACB TAD740GE	TAD740GE	316@1800	123@316	105	923@1800	123@923	105 8	105 ECM SPL, TC, CAC.	CAC.

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