

AB VOLVO PENTA

EXECUTIVE ORDER U-R-014-0099 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2007	7VPXL09.4BAA	9.4	Diesel	8000	
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module		er, Charge Air Cooler, odule	Pump, Compressor		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION		EXHAUST (g/kW-hr)				OPACITY (%)			
CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 ≤kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	3.8	1.2	0.15	9	0	15

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 26TH day of December 2006.

Annette Hebert, Chief

Raphael Susnownk

Mobile Source Operations Division

Engine Model Summary Form

Attachment 1. of 1

cturer: AB Volvo Penta

category: Nonroad CI

gine Family: 7VPXL09.4BAA

nily Name: TAD 95X VE

s Code: New Submission

	PΝ	DDE	100
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	107 +- 4% EM, ECM, TC, CA€, DD	EM, ECM, TC, CAC, DDI	EM, ECM, TC, CAC, DDI
8.Fuel Rate: (lbs/hr)@peak torque	107 +- 4%	96 +- 4%	NA
7.Fuel Rate: mm/stroke@peak torque	248 +- 4%	240 +- 4%	187 +-4%
6.Torque @ RPM (SEA Gross)	1253@1300	1253@1200	895@1550
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	128 +- 4%	118 +- 4%	N/A
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	183 +- 4%	169 +- 4%	149 +- 4%
3.BHP@RPM (SAE Gross)	324@2100	300@2100	256@2100
ine Code 2.Engine Model	TAD 952VE	TAD 951VE	TAD 950VE
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