

## **AB VOLVO PENTA**

EXECUTIVE ORDER U-R-014-0103 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)
2008	8VPXL12.1BAA	12.1	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT APP	
Direct Dies Engi	sel Injection, Turbocharg ine Control Module, Smo Exhaust Gas Recirc	ke Puff Limiter,	Pump, Compress	sor

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	co	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	0.8	0.14	3	2	8

**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 \_\_\_\_\_\_ day of December 2007.

Annette Hebert, Chief

Mobile Source Operations Division

## **Engine Model Summary Form**

AB Volvo Penta Manufacturer:

Engine category: Nonroad Cl
EPA Engine Family: 8VPXL12.1BAA
Mfr Family Name: TAD125XVE

**New Submission** Process Code:

Attachment 1 of 1

U-R-014-0103

1.Engine Code	Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesels only) (for diesels only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (ibs/hr)@peak torque	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	
	TAD1252VE	420@1800	238±3%	140±4%	1550@1200	311±4%	Y	ECM SPLEGR DD1 TO GO	DDI 70 CAC
	TAD1251VE	388@1800	226±3%	139±4%	1440@1200	292±4%			
	TAD1250VE	347@1600	219±3%	118±4%	1300@1200	263±4%		ا ا	<b>→</b>
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