

AB VOLVO PENTA

EXECUTIVE ORDER U-R-014-0102 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	8VPXL16.1ACB	16.12	Diesel	8000			
	AL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Generator				

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
CLASS			нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		FEL	-	-	6.0	-	0.17	-	-	-
		CERT	-	-	5.4	0.7	0.10		-	-

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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:

Nonroad CI Engine category:

EPA Engine Family: 8VPXL16.1ACB

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Attachment 1 of 1

TAD 164XGE Mfr Family Name: Process Code:

New Submission

	I44		
8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	BOM, CAC, TC,	ر ر	
8.Fuel Rate: (lbs/hr)@peak torqu	- NA	¥.	
7.Fuel Rate: mm/stroke@peak torque	NA	₹	
6. Torque @ RPM (SEA Gross)	2388	2230	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)			,
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	404	374	
3.BHP@RPM (SAE Gross)	809@1800	757@1800	
L.Engine Code 2.Engine Model	TAD1642GE	TAD1641GE	
1.Engine Code	•	2	