

AB VOLVO PENTA

EXECUTIVE ORDER U-R-014-0068 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)
2003	3VPXL12.1ACB	12.1	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A	PPLICATION
Direct Dies	el Injection, Turbocharge Electronic Control M	er, Charge Air Cooler, Iodule	Generator S	et

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	EMISSION			E	XHAUST (g/kw-l	ar)		OF	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		нс	Nox	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		CERT	-	-	5.8	0.7	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 9TH day of January 2003.

Aller Lyons, Chief

Mobile Source Operations Division

Hadwent Los

jine Model Summary Form

Manufacturer: AB Volvo Penta

Engine category: Nonroad CI

EPA Engine Family: 3VPXL12.1ACB

Mfr Family Name: TAD124XGE

Process Code: **New Submission**

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		156@1350	259@1350	1350@1800	156@462	259@462	462@1800	TAD1240GE	6
		139@1503	277@1503	1503@1500	139@429	277@429	429@1500	TAD1240GE	បា
7/	-	180@1538	300@1538	1538@1800	180@527	300@527	527@1800	TAD1241GE	10
		158@1704	320@1704	1704@1500	158@486	320@486	486@1500	TAD1241GE	9
	-	217@1757	359@1757	1757@1800	217@602	359@602	602@1800	TAD1242GE	8
3	DOI, TC, CAC, DEM	179@1869	355@1869	1869@1500	179@534	355@534	534@1500	TAD1242GE	7
•	9.Emission Control Device Per SAE J1930	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	7.Fuel Rate: mm/stroke@peak torque	6.Torque @ RPM (SEA Gross)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	4.Fuel Hate: mm/stroke @ peak HP (for diesel only)	3.BHP@RPM (SAE Gross)	2.Engine Model	1.Engine Code