California Environmental Protection Agency						
AIR	RESOURCES	BOARD				

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) 8000	
2005	5VPXL12.1ACB	12.1	Diesel		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Smoke Puff Limiter			Generator	Set	

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 CLASS	EMISSION		EXHAUST (g/kW-hr)				OPACITY (%)			
	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 <u>&lt;</u> 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	0.09	-	-	-

**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 \_\_\_\_

ZIST day of December 2004.

Allen Lyeris, Chief Mobile Source Operations Division

**Engine Model Summary Form** 

Afterchment W-R-014-0090

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Manufacturer:AB VOLVO PENTAEngine category:Nonroad CIEPA Engine Farrily.SVPXL12.1ACBMfr Farrily Name:TAD124XGE

New Submission

Process Code:

8.Fuel Rate: 9.Emission Control (tbs/hr)@peak torque Device Per SAE J1930 DDT TC CAC 179@1869 180@1538 139@1503 156@1350 217@1757 158@1704 7.Fuel Rate: mm/stroke@peak torque 320@1704 300@1538 355@1869 259@1350 277@1503 359@1757 6.Torque @ RPM 1538@1800 1704@1500 1869@1500 1757@1800 1503@1500 1350@1800 (SEA Gross) 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) 179@534 217@602 158@486 180@527 39@429 156@462 4.Fuel Rate: mm/stroke @ peak HP (for diesel onty) 300@527 355@534 320@486 277@429 359@602 259@462 3.BHP@RPM (SAE Gross) 527@1800 534@1500 602@1800 486@1500 429@1500 462@1800 2.Engine Model TAD 1242GE TAD 1242GE TAD 1241GE TAD 1241GE TAD 1240GE TAD 1240GE 1.Engine Code 9 თ 9.9 ~ ω

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