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)	
2005	5VPXL09.6ACB	9.6	Diesel	8000	
SPECIAL	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION		
Direct Diesel Injection, Turbocharger, Charge Air Cooler			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 STANDARD CATEGORY		EXHAUST (g/kW-hr)				OPACITY (%)			
			нс	NOx	NMHC+NOx	со	РМ	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	-	-	5.9	1.8	0.12	-	-	-

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 Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form

Attachment U.R.014-0087 .

ifacturer: AB VOLVO PENTA he category: Nonroad CI Engine Famty: 5VPXL09.6ACB

Ingine Farmy. 5VPXLU9.6AGB amily Name: TAD1031GE

ess Code: New Submission

	4			
9.Emission Control Device Per SAE J1930	150@1560 DUT, TC, CAC >	< → <		
8. Fuel Rate: 9. Emission Control (lbs/hr)@peak torque Device Per SAE J1930	150@1560	133@1427	· · · · · · · · · · · · · · · · · · ·	
7.Fuel Rate: mm/stroke@peak torque	@1800 248@1560	219@1427		
6. Torque @ RPM (SEA Gross)	1560	1427@1800		
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	150@394	133@360		
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	248@394			
3.BHP@RPM (SAE Gross)	394@1800	219@1800		anna an ann an ann an Ann an Ann an Anna an Ann
3.BHP@RPM 1gine Code 2.Engine Model (SAE Gross)	TAD 1031GE	2 TAD 1031GE 219@1800 219@360		an an ann an Anna an Anna an Anna ann an Anna ann an Anna Ann
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