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)
2005	5VPXL09.4ACC	9.36	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
Direct Dies	el Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Loader, Tractor, Pump	, Compressor

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)		O	PACITY (%	6)
CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 <u>≤</u> kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT	-	-	5.7	0.8	0.16	2	5	7

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.

This Executive Order hereby cancels and replaces Executive Order U-R-014-0085 dated December 21, 2004.

Executed at El Monte, California on this _____ day of August 2008.

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Annette Hebert, Chief Mobile Source Operations Division

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MAT TO CAR DA	R1	175	1250@1400	94	134	258@2100	TAD 940 VF	
le: 9 Emission Control torque Device Per SAE J1930	8.Fuel Rale: (lbs/hr)@peak torque	7.Fuel Rate: mm/stroke@peak lorque	6.Torque @ RPM (SEA Gross)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	3.8HP@RPM (SAE Gross)	2.Engine Model	Engine Code
					•	•	New Submission	cess Code:
u-R-014-0085-	٤		e 1 of 1	Attachment, page	Attac	·	5VPXL09.4ACC TAD 940/1 VE	A Engine Famly. Family Name:
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Engine Model Summary Form