Californ	ia Environmental Protection	Agency
C EAIR	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)		
2010	AVPXL09.4BAA	9.4	Diesel	8000		
	FEATURES & EMISSION					
Direct Dies Electr	el Injection, Turbocharge onic Control Module, Sm Exhaust Gas Recirci	er, Charge Air Cooler, oke Puff Limiter, ulation	Crane, Loaders, Pump			

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)		OF	PACITY (%	b)
CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	3.8	1.2	0.15	9	Ο.	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

____ day of December 2009.

J. Lomener

Annette Hebert, Chief Mobile Source Operations Division

Attachment 1 eb 1 11-9-2009

Engine Model Summary Template

U-R-014-0115

Engine Family	1.Engine Code	Engine Family 1.Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (Ibs/hr) @ peak HP 6.Torque @ RPM (for diesel only) (for diesels only) (SEA Cmee)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels onlv)		7.Fuel Rate: mm/stroke@peak	8.Fuel Rate:	9.Emission Control	
							in anhini	insuri)@peak torque[(Institut)@peak torqueDevice Per SAE J1930	
	_	I AD952VE	324@2100	183±4%	128±4%	1253@1300	TONARC	4 107 - 101		1
	c					0001	0/ 4TO47	10/ ±4%	IVIE47% DU/ EM,ECM,TC.CAC.EGR SPC	J J J J
	7	IAD951VE	300@2100	169±4%	118+4%	1253@1200	JAN LAD	701.100	/	- 1-
AVPXI 09 4BAA	~						240IF4 70	80±4%	<pre>/ EM,ECM,TC,CAC,EGR</pre>	
	o	IAUSOVE	256@2100	149±4%	NA	895@1550	187+4%	NIA		÷
						000	0/ FT /01		<pre>r EM, ECM, TC,CAC,EGR</pre>	\rightarrow
										J.