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 systems 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)
2008	8HMXL10.5PUN	10.52	Diesel	8000
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A	
Direct Dies Exhaust	el Injection, Turbocharg Gas Recirculation, Elect	er, Charge Air Cooler, ronic Control Module	Crane, Excava	itor

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			Ē	XHAUST (g/kW-	nr)		OF	ACITY (%	<b>b</b> )
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 <u>&lt;</u> kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.5	0.8	0.13	7	5	14

**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 2007.

Annette Hebert, Chief Mobile Source Operations Division

			Ш	Engine Model Summary Template	HMENT	nplate		U-R-020-0038	-0038
Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP( (for diesel only)	5.Fuel Rate: Ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque (	8.Fuel Rate: (tbs/hr)@peak torque 10/1-200	8.Fuel Rate: 9.Emission Control (tbs/hr)@peak torqueDevice Per SAE J193 4044-200 DDI FM. ECM
8HMXL10.5PUN	AA-P11C-UN	AA-P11C-UN	331@2000	186+-4.0	124+-2.7	913@1500	209+-4.0	0.7-1401	EGR, TC, CAC
N CONTRACT (CONTACT - CONTACT - CONTACT - CONTACT									