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 engine 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	5LBDL2.07CHD	1.56, 2.08	Diesel	3000 or 5000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	Pump, Generator and Industrial Equipment			

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
8 <kw<19< td=""><td>Tier 2</td><td>STD</td><td>N/A</td><td>N/A</td><td>7.5</td><td>6.6</td><td>0.80</td><td>20</td><td>15</td><td>50</td></kw<19<>	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	20	15	50
	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			5.9	1.3	0.39	2	2	3

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 January 2005.

2TH

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Sur ary Form

Ianufacturer:Lombardini S.r.l.ngine category:Nonroad ClPA Engine FamiySLBDL2.07CHDAfr Family Name:CHD*rocess Code:New Submission

9.Emission Control Jevice Per SAE J1930	Ō	IQI	IQI		0	Ĩ	IQ	Q	Ō	D
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	11.71	10.98	9.19	FIXED SPEED	FIXED SPEED	14.42	12.97	FIXED SPEED	FIXED SPEED	FIXED SPEED
7.Fuel Rate: mm/stroke@peak torque	33.5	33.0	32.5	FIXED SPEED	FIXED SPEED	32.5	32.5	FIXED SPEED	FIXED SPEED	FIXED SPEED
6.Torque @ RPM (SEA Gross)	68.6@2100	69.0@2000	66.4@1700	FIXED SPEED	FIXED SPEED	90.0@2000	88.5@1800	FIXED SPEED	FIXED SPEED	FIXED SPEED
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	15.21	14.44	11.27	5.60	15.21	19,96	15.30	9.81	11.58	19.62
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	30.5	31.0	29.5	18.7	30.5	30.0	30.0	29.5	29.0	29.5
3.BHP@RPM (SAE Gross)	32.8@3000	32.2@2800	25.5@2300	21.4@1800	32.8@3000	43.6@3000	34,8@2300	24.1@1500	28.1@1800	42.9@3000
2.Engine Model	LDW 1503	LDW 1503	LDW 1503	LDW 1503	LDW 1503	LDW 2004	LDW 2004	LDVV 2004	LDW 2004	LDW 2004
1. Engine Code	3						·			

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U-R-027-0048

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