LOMBARDINI S.R.L.

EXECUTIVE ORDER U-R-027-0021 New Off-Road Compression-Ignition Engines

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)							
2003	3LBDL.686SF2	0.686	Diesel	3000							
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION								
	Indirect Diesel Inje	ction	Loader, Tractor, Dozer, Pump, Compressor, 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	EMISSION STANDARD			1	XHAUST (g/kw-h	OPACITY (%)					
CLASS	CATEGORY		HC NOx		NMHC+NOx	co	PM	ACCEL	LUG	PEAK	
KW<8	Tier 1	STD	N/A	N/A	10.5	8.0	1.0	20	15	50	
8 <u><</u> KW<19	Tier 1	Tier 1 STD N/A			9.5	6.6	0.80	20	15	50	
		CERT			5.8	3.5	0.20	1	1	1	

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.

Allen Lyons, Chief

Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Form

Manufacturer: Lombardini S.R.L.

Engine category: Nonroad Cl

EPA Engine Famly. 3LBDL.686SF2

Mfr Family Name: LDW SUPER FOCS

Process Code: **New Submission**

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						THE ST. BOTH THE PARTY OF STREET, STRE		and the second of the second o				The second secon	to the second of the second se				LDW 702	LDW 702	LDW 702	LDW 702	LDW 702	2.Engine Model
									•								15.54@3600	14.74@3000	8.71@1800	14.74@3000	15.54@3600	3.BHP@RPM (SAE Gross)
																	20.0	20.0	20.0	20.0	20.0	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)
en cape de la se entre en response como de la serie de la companya del companya de la companya de la companya del companya de la companya del la companya de la companya del la companya de la companya d																	7.98	6.66	3.99	6.66	7.98	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)
											:						FIXED SPEED	FIXED SPEED	FIXED SPEED	28.03@2000	28.03@2200	6.Torque @ RPM (SEA Gross)
																	FIXED SPEED	FIXED SPEED	FIXED SPEED	21.4	21.7	7.Fuel Rate: mm/stroke@peak torque
	and the second s	C. Allen and C. Martin and C. M. C.				or the burners of the second s							The state of the s		THE COMMENT OF THE REAL PROPERTY OF THE PROPER		FIXED SPEED	FIXED SPEED	FIXED SPEED	4.74	5.29	8.Fuel Rate: (lbs/hr)@peak torque
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