		Californ	ia Environ	mental Pro	otection A	gency	
C	厚	AIR	RES	OUR	CES	BOA	١RD

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 ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2003	3L5XL1.72FX9	1.72	Diesel	3000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Direct Diesel Injec	ction	Pump, Generator Set, 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 STANDARD		EXHAUST (g/kw-hr)				OPACITY (%)			
CLASS	CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 <u>&lt;</u> kW<19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
		CERT			8.9	4.0	0.22	0	0	0

**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 November 2002.

. . Aller Lyons, Chief Mobile Source Operations Division

		50 State Code 3X90	1.Engine Code	Manufacturer: Engine category: EPAEngine Family: Mfr Family Name: Process Code:	A ttach ment
		F1800	2.Engine Model	Lister Petter Nonroad Cl 3L5XL1.72FX9 3X90 F1800 New Submission	1 01 1
		25.1 @ 1800	3.BHP@RPM (SAE Gross)		
	• •	33	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)		Engine Mo
	ž	9.7	5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)		Engine Model Summary Form
*		N/A	6.Torque @ RPM (SEA Gross)		y Form
		NA	7.Fuel Rate: mm/stroke@peak torque	1. R. 023.0018	
		NA	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J193		

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