

LISTER-PETTER

EXECUTIVE ORDER U-R-023-0009

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-45-9;

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)
2002	2L5XL1.862TC	1.9	Diesel	8000
SPECIAL	FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT A	PPLICATION
ī	Direct Diesel Injection, Tu	ırbocharger	Loaders, Crane, Tractor, Pu	ımp, 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	EMISSION			E	EXHAUST (g/kw-l	nr)		OF	PACITY (%	5)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 <u><</u> KW <75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT		8.7				14	14	29

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 February 2002.

Allen Lyons, Chief

New Vehicle/Engine Programs Branch

Engine Model Summary Form

4 Hachment

Manufacturer: Lister-Petter

Engine category: Nonroad Cl

EPAEngine Family: 2L5XL1.862TC

Mfr Family Name: LPWT4

Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Contre Device Per SAE J19
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50 State Code								
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	5	20:00			0007		777	1 / ENA
I DIAITA	302	53.9 @ 2950	35	23.0	111.5 @ 1800	30	14.4	Em
)		100	1000 8 4000	22	12.0	Z.
1 DWTA	351	50.3 @ 3000	31	20.7	103.3 @ 1000	20	2.01	1
-		0000	24	7 00	103 3 @ 1800	88	13.2	1
PWT4	384	50.3 @ 3000	10	20.1	2001			
	700	50.2 @ 3000	34	20.7	103.3 @ 1800	33	13.2	¥
LPW14	30/	30.3 @ 3000	5		000, 0 2 , , ,	C	144	. V = ENA
1 D\AT4	388	53.9 @ 2950	35	23.0	111.5 @ 1800	20	† .	
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