PERKINS ENGINES COMPANY LTD.

EXECUTIVE ORDER U-R-022-0058 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)
2004	4PKXL04.4RJ1	4.4	Diesel	8000
SPECIAL F	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
Direct Diese	el Injection, Turbocharg and Smoke Puff Li	er, Charge Air Cooler miter	Tractor and Industria	l 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		<u>-</u> .	,	EXHAUST (g/kw-l	ır)		OF	ACITY (%	<u> </u>
CLASS	CATEGORY		HC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
75 <u><</u> KW<130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	 _
		CERT			5.4	0.6	0.28	20	15	50 16

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 2004.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form

ATTACHIMEM / Oチ /, Manufacturer: Perkins Engines Company Ltd

Engine category: Nonroad CI

EPA Engine Family: 4PKXL04.4RJ1

Mfr Family Name: 1104C-44TA AND CATERPILLAR 3054

New Submission Process Code:

4.022-058

2.Engine Model 3.BHP@RPM (SAE Gross) mm/stroke@peak HP (for desest only) (for desest only) (for desest only) (for desest only) (SEA Gross) T.Fuel Rate: (SEA Gross) T.Fuel Rate: (Barh)@ peak HP (Increased only) E.Tuel Rate: (SEA Gross) T.Fuel Rate: (Barh)@ peak HP (Increased only) T.Fuel Rate: (SEA Gross) T.Fuel Rate: (Barh)@ peak HP (Increased only) T.Fuel Rate: (SEA Gross) T.Fuel Rate: (Barh)@ peak HP (Increased only) T.Fuel Rate: (Barh)@ p								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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