California Environmental Protection Agency AIR RESOURCES BOARD	LIEBHERR MACHINES BULLE SA	EXECUTIVE ORDER U-R-018-0079 New Off-Road Compression-Ignition Engines
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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)			
2007	7LHAL12.0KPA	12.0	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter			Crane, Loader, Dozer, 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			EXHAUST (g/kW-hr)				OPACITY (%)			
POWER STANDARD CLASS CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK	
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.5	0.6	0.10	17	3	36

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 28 day of August 2007.

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Annette Hebert, Chief Mobile Source Operations Division

1 PL00-810-8-1

Engine Model Summary Form

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Liebherr Machines Bulle SA Nonroad Cl 7LHAL12.0KPA EPA Engine Fam**i**y. Engine category: Manufacturer:

Mfr Family Name: NA Process Code: New Submission

A. Fuel Rate:   5. Fuel Rate:   5. Fuel Rate:   5. Fuel Rate:   7. Fuel Rate:   9. Emission Control     1. Engine Code   2. Engine Model   (SAE Gross)   (for diesel only)   (for diesels only)   (for diesels only)   (for diesels only)   (for diesels only)   (SEA Gross)   NM   NM   Power Per SAE J1930     NA   D946 R06661001   371 @ 20000   226@ 371   NA   1264@ 15000   265@ 1264   NA   POIL Late: CAG   6. CAG   265@ 1264   NA   POIL Late: CAG   7     NA   D946 R06661001   371 @ 20000   2266@ 371   NA   1264@ 15000   265@ 1264   NA   POIL Late: CAG   7     NA   D946 R06461001   371 @ 20000   2266@ 371   NA   1264@ 15000   265@ 1264   NA   POIL Late: CAG   7				
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