

# LIEBHERR LH50M 1216-121667 - Diesel Engine

Sample No: LH0164760

Oil Type: LIEBHERR MOTOROIL 10W-40

## **Sample Information**

Sample Number	LH0164760	LH0164793	 
Sample Date	09 Nov 2021	24 Jun 2021	 
Machine Hours	1000	670	 
Oil Hours	0	0	 
Oil Changed	Changed	Changed	 
Sample Status	ATTENTION	NORMAL	 

0 11.9

96

Visc @ 100°C cSt Base Number (BN) mg KOH/g

%

Oxidation (PA)

-

### **Contamination** Water % NEG NEG Soot % % 0.1 0.1 Nitration (PA) % 95 77 Sulfation (PA) % 44 72

0 11.6

0 17.1

47

Glycol	%	NEG	NEG	 
Fuel	%	0 1.8	<1.0	 
Silicon	ppm	9	07	 
Sodium	ppm	<b>○</b> <1	01	 
Potassium	ppm	02	2	 

#### 0 ear Metals Iron ppm 8 🔘 $\bigcirc 5$ Copper 0 14 ppm Lead 0 <1 ppm Tin ○ <1 ppm < Aluminum 2 ○ <1 ppm Chromium ○ <1 ○ <1 ppm Molybdenum 02 08 ppm Nickel 0 $\bigcirc 0$ ppm Titanium <1 <1 ppm Silver <1 ppm <1 Manganese ppm **○** <1 ○ <1 Vanadium ppm 0 0

	tives			
Calcium	ppm	0 4209	2217	 
Magnesium	ppm	0 36	0 143	 
Zinc	ppm	0 1121	781	 
Phosphorus	ppm	0 1038	661	 
Barium	ppm	0 2	0 4	 
Boron	ppm	0 209	0 20	 



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## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. No other contaminants were detected in the oil. The oil viscosity is lower than normal. Confirm oil type.





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Graphs

