#### BHERR **CONSTRUCTION EQUIPMENT**

### LIEBHERR LRT 1100-2.1 Bigge LRT (S/N 044808) - Diesel Engine

Sample No: LH0257742

**Oil Type:** LIEBHERR MOTOROIL 5W-30 LOW ASH

#### **Sample Information** Sample Number LH0257742 Sample Date 21 May 2024 Machine Hours 0 **Oil Hours** 0 Oil Changed Not Changd Sample Status NORMAL **Oil Condition** Visc @ 100°C cSt 0 13.8 Base Number (BN) mg KOH/g 08.1 Oxidation (PA) % 71 **Contamination** Water % NEG % 0.1 Soot % Nitration (PA) % 62 Sulfation (PA) % 53 % Glycol NEG Fuel % <1.0 Silicon 0 29 ppm Sodium ppm 04 Potassium ppm 01 10 **Wear Metals** Iron ppm 07 Copper 0 20 ppm Lead 0 ppm Tin 0 ppm Aluminum 2 ppm Chromium 0 ppm Molybdenum 0 43 ppm Nickel 0 ppm Titanium 0 ppm Silver 0

Additives					
Calcium	ppm	1109			
Magnesium	ppm	0 793			
Zinc	ppm	0 807			
Phosphorus	ppm	0 705			
Barium	ppm	0			
Boron	ppm	<b>66</b>			

Depot: LIEHOU Unique No: 11044015 Don Baldridge Signed: **Report Date:** 23 May 2024 Submitted By: ALEXANDER BUECH

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02

0

ppm

ppm

ppm

Manganese

Vanadium

LIEBHERR CRANE INC 7075 BENNINGTON ST HOUSTON, TX US 77028 Contact: RANDY BLUM

#### randy.blum@liebherr.com T: (713)636-4000 F: (713)636-4039

#### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



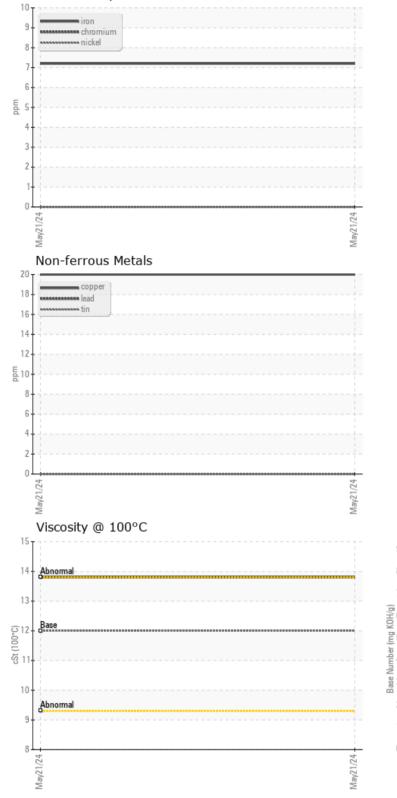
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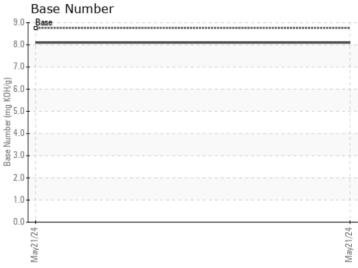


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#### Ferrous Alloys

Graphs





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