2 **CONSTRUCTION EQUIPMENT**

LIEBHERR R920 051529-1705 - Diesel Engine

Sample No: LH0225138 {unknown}

Oil Type:

<u>A</u>

SAMPLE INFORMATION

Sample Number	LH0225138	LH0269734	
Sample Date	24 Jan 2024	31 Aug 2023	
Machine Hours	3129	2657	
Oil Hours	0	0	
Oil Changed	Changed	Changed	
Sample Status	NORMAL	NORMAL	

OIL C	ONDIT	ION		
Visc @ 100°C	cSt	11.8	0 12.1	
Oxidation (PA)	%	84	83	
- 1				

CON							
M/stsu	0(1150	NEO				
Water	%	NEG	NEG				
Soot %	%	0	0				
Nitration (PA)	%	86	83				
Sulfation (PA)	%	60	63				
Glycol	%	NEG	NEG				
Fuel	%	<1.0	0.5				
Silicon	ppm	0 11	28				
Sodium	ppm	◯ 5	○ 5				
Potassium	ppm	() <1	○ <1				

\odot **WEAR METALS** 0 19 Iron ppm 0 18 Copper ppm 04 04 Lead ppm ○ <1 \bigcirc <1 Tin 0 ppm Aluminum 02 ppm ○ <1 Chromium ○ <1 ○ <1 ppm Molybdenum 0 61 0 59 ppm Nickel 0 <1 $\bigcirc 0$ ppm Titanium 0 0 ppm Silver 0 $\bigcirc 0$ ppm Manganese ppm 0 <1 Vanadium ppm 0

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	ITIVES			
Calcium	ppm	0 863	890	
Magnesium	ppm	O 1155	0 1157	
Zinc	ppm	0 1252	0 1272	
Phosphorus	ppm	0 1058	0 1107	
Barium	ppm	0	0	
Boron	ppm	36	◯ 36	





т: F:

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

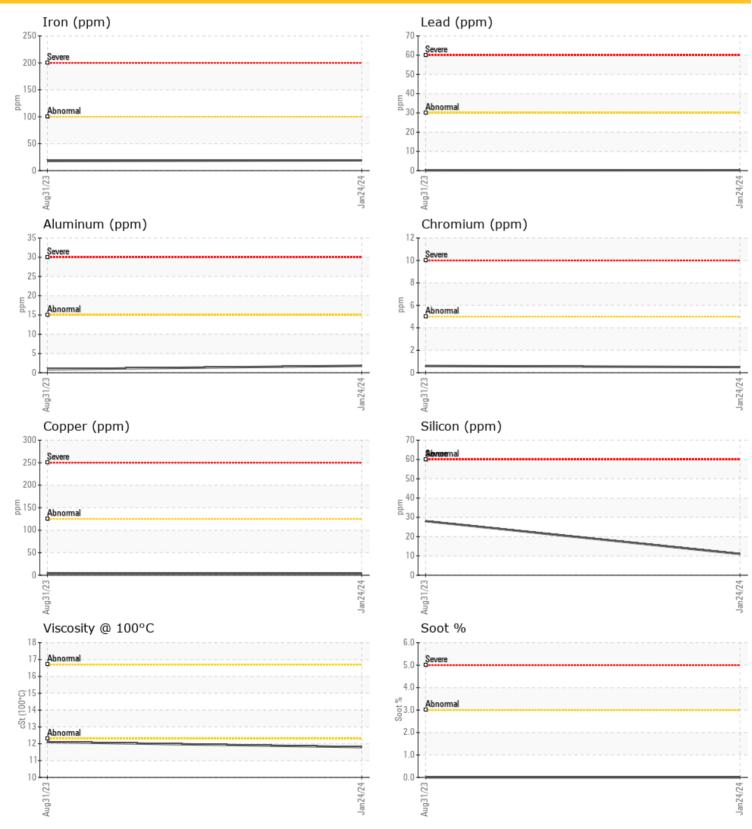






GRAPHS

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