CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1203-81839 - Swing Drive

Sample No: LH0243706

Oil Type: **GEAR OIL SAE 85W90**



CONTAMINATION						
Water	%		0.623	1.23		
Silicon	ppm	4	3	3	O 1	
Sodium	ppm	<1	○ 3	O 2	O 2	
Potassium	ppm	0	O 0	0	O 7	

₩ WEA	IR METAI	LS				
Iron	ppm	1646	O 1346	O 1839	O 224	
Copper	ppm	404	O 503	○ 319	O 103	
Lead	ppm	3	O <1	O	O 1	
Tin	ppm	16	O 7	0 8	0	
Aluminum	ppm	○ <1	O 0	O	O <1	
Chromium	ppm	<u> </u>	<u> </u>	<u> </u>	O 2	
Molybdenum	ppm	2	1	1	O <1	
Nickel	ppm	2	O 2	O 2	0	
Titanium	ppm	<1	<1	<1	0	
Silver	ppm	0	<1	0	0	
Manganese	ppm	14	9	O 13	O 2	
Vanadium	ppm	<1	<1	<1	0	

Vanadium	ppm	<1	<1	<1	0	
ADD	ITIVES					
Calcium	ppm	22	O 13	○ 38	O 18	
Magnesium	ppm	5	O 0	O <1	O <1	
Zinc	ppm	21	O 11	O 25	27	
Phosphorus	ppm	1765	O 2420	2188	2078	
Barium	ppm	0	0	O	O 0	
Boron	ppm	6	O 10	18	O <1	





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Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0007 Unique No: 10673825 Signed: Sean Felton **Report Date:** 04 Oct 2023

Page 1 of 2

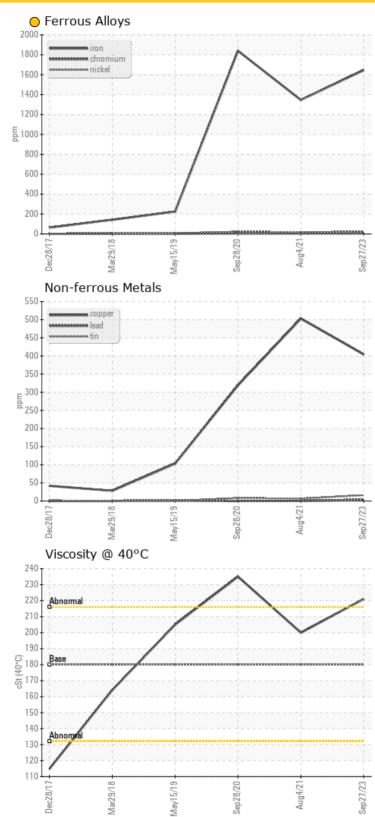
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GRAPHS



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