CONSTRUCTION EQUIPMENT

[[SUPER SALVAGE]] LIEBHERR LH50M 1203-88171 - Swing Driv

Sample No: LH0229454

Oil Type: LIEBHERR GEAR BASIC 90 LS

SAMPLE INFORMATION

Sample Number		LH0229454	LH0204415	LHMC130265	LHMC132300
Sample Date		25 Sep 2023	05 Oct 2021	15 Apr 2019	15 Apr 2019
Machine Hours		12663	10644	5784	5784
Oil Hours		0	2000	1000	1000
Oil Changed		N/A	Changed	Changed	Changed
Sample Status		ABNORMAL	SEVERE	SEVERE	ABNORMAL
OIL CO	ONDITION				
Visc @ 40°C	cSt	153	269	0 181	0 180
	AMINATIO	ON			
Water	%	0.171		0.375	0.209
Silicon	000		0.22	0.24	\bigcirc 14

	/0	• •••••		0 0101 0	0.1200
Silicon	ppm	04	23	24	0 14
Sodium	ppm	0	3	2	2
Potassium	ppm	01	8	2	0 16
Ä					

WEA	R METALS				
Iron	ppm	<u> </u>	8610	666	457
Copper	ppm	0 211	0 757	0 115	78
Lead	ppm	0 🔘	2	◯ <1	0
Tin	ppm	3	03	0	0
Aluminum	ppm	○ <1	0 4	0 14	9
Chromium	ppm	0 13	0 112	6	0 4
Molybdenum	ppm	01	0	0	0
Nickel	ppm	01	8	01	◯ <1
Titanium	ppm	○ <1	◯ <1	○ <1	◯ <1
Silver	ppm	0	0	<1	0
Manganese	ppm	0 10	0 100	5	0 4
Vanadium	ppm	0	2	0	0

0 **ADDITIVES** Calcium ppm 0 19 0 108 0 40 34 Magnesium 05 ○ 56 $\bigcirc 0$ ○ <1 ppm Zinc 080 0 36 0 26 0 25 ppm Phosphorus ppm 0 969 0 1633 0 1794 0 191 Barium 0 ppm 04 0 $\bigcirc 0$ Boron ppm 0 17 0 52 \bigcirc 3 $\bigcirc 4$



LIEBHERR EQUIPMENT SOURCE

6940 OCONNOR CAVE HANOVER, MD US 21076 Contact: PETE JARVIS peter.jarvis@liebherr.com T: (410)379-3994 F: (410)379-3998

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. All other component wear rates are normal. There is a trace of moisture present in the oil. The condition of the oil is acceptable for the time in service.

Depot:	LIEBHERRMD
Unique No:	10672319
Signed:	Don Baldridge
Report Date:	03 Oct 2023





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GRAPHS

