# 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	<b>•</b> •••••		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	<b>3</b>	03	0	0
Aluminum	ppm	<b>○</b> <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	<b>○</b> <1	◯ <1	○ <1	◯ <1
Silver	ppm	0	0	<1	0
Manganese	ppm	<b>0</b> 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





# Ø

**GRAPHS** 

