

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-98638 - Swing Drive

Sample No: LH0268263

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	<b>LH0268263</b>	LH0263936	LH0245052	LH0221009
Sample Date	<b>25 Jan 2024</b>	17 Aug 2023	29 Mar 2023	29 Sep 2022
Machine Hours	<b>13406</b>	12191	11277	10101
Oil Hours	<b>1000</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	N/A	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

**AMERICAN STATE EQUIPMENT CO.**  
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 US 53227  
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#### OIL CONDITION

Visc @ 40°C	cSt	<b>124</b>	126	164	191
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>1</b>	2	4	5
Sodium	ppm	<b>0</b>	0	<1	0
Potassium	ppm	<b>0</b>	<1	0	1

#### 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 condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	<b>329</b>	581	1334	1377
Copper	ppm	<b>31</b>	37	78	160
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	2
Aluminum	ppm	<b>0</b>	0	3	2
Chromium	ppm	<b>4</b>	8	16	14
Molybdenum	ppm	<b>&lt;1</b>	1	1	<1
Nickel	ppm	<b>0</b>	2	2	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>3</b>	5	9	10
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

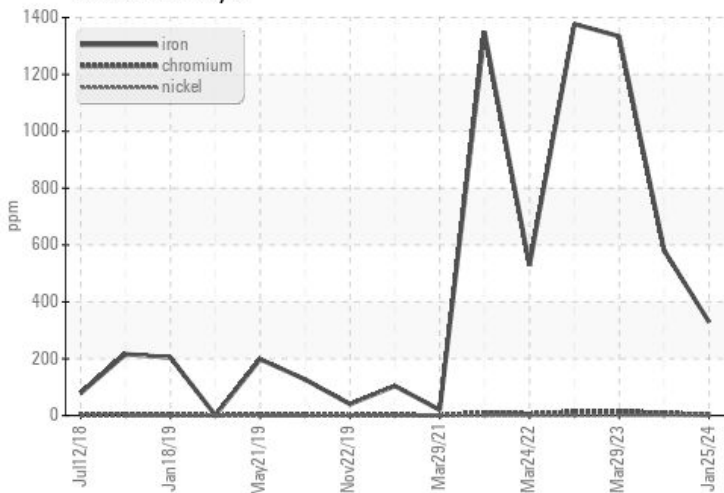
Calcium	ppm	<b>32</b>	43	136	147
Magnesium	ppm	<b>0</b>	5	4	2
Zinc	ppm	<b>21</b>	38	63	90
Phosphorus	ppm	<b>870</b>	791	1059	2062
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>4</b>	8	6	6

**Depot:** LEC0007  
**Unique No:** 10857284  
**Signed:** Sean Felton  
**Report Date:** 01 Feb 2024

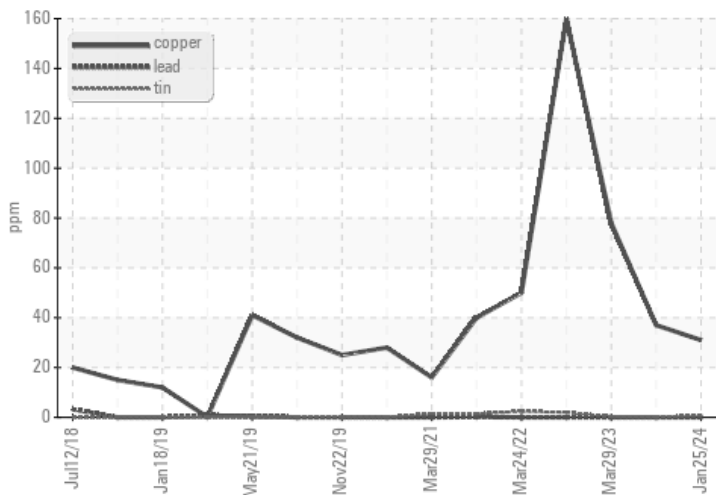


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

