

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-117 615 - Front Differential

Sample No: LH0268640

Oil Type: LIEBHERR GEAR BASIC 90 LS



**RECO EQUIPMENT INC**  
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 BRIGHTON, MI  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0268640</b>	LH06073287	LH0244103	LHMC155613
Sample Date	<b>05 Mar 2024</b>	28 Jan 2024	14 Apr 2023	21 Jun 2021
Machine Hours	<b>5510</b>	1216	6895	3193
Oil Hours	<b>510</b>	0	1000	0
Oil Changed	<b>Not Chngd</b>	N/A	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>181</b>	192	189	193
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>0</b>	<1	0	1
Sodium	ppm	<b>&lt;1</b>	1	<1	3
Potassium	ppm	<b>0</b>	2	<1	<1



#### WEAR METALS

Iron	ppm	<b>0</b>	3	2	8
Copper	ppm	<b>0</b>	0	<1	4
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	<1	0	0
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>4</b>	10	31	2
Magnesium	ppm	<b>0</b>	1	<1	<1
Zinc	ppm	<b>&lt;1</b>	2	11	0
Phosphorus	ppm	<b>2252</b>	2327	2248	2463
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>0</b>	0	1	22

#### Diagnosis

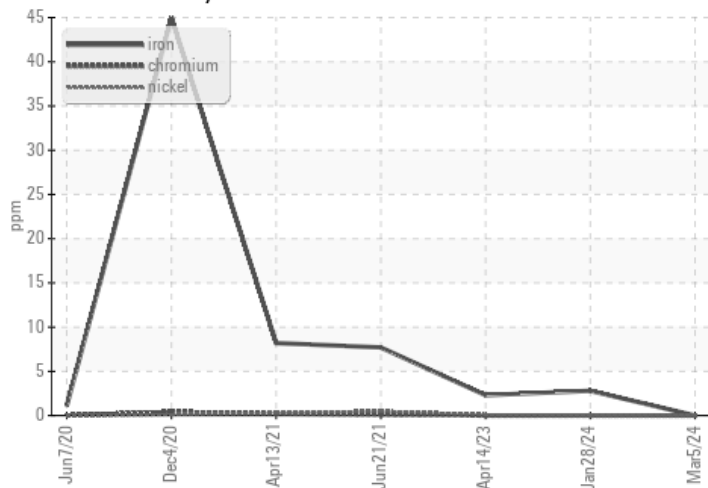
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** RECBRILH  
**Unique No:** 10939381  
**Signed:** Wes Davis  
**Report Date:** 24 Mar 2024

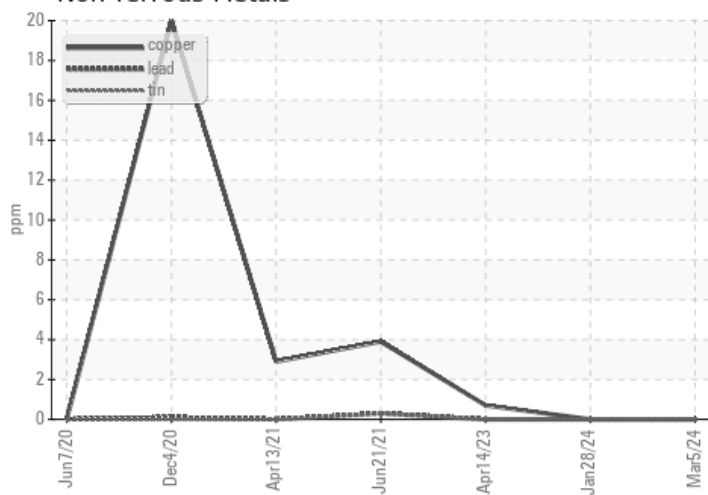


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

