

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 NOT GIVEN PCA0128568 (S/N 145582-1216) - Rear Dif

Sample No: LH0273651

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>LH0273651</b>	LH0272946	LH0268529	LH0243272
Sample Date	<b>06 Jun 2024</b>	20 Nov 2023	19 Sep 2023	15 Jun 2023
Machine Hours	<b>3371</b>	2062	1633	1005
Oil Hours	<b>1000</b>	0	1633	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	<b>178</b>	156	155	147
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#### Contamination

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>3</b>	6	7	2
Sodium	ppm	<b>2</b>	0	1	5
Potassium	ppm	<b>1</b>	1	1	2



#### Wear Metals

Iron	ppm	<b>18</b>	19	22	6
Copper	ppm	<b>15</b>	20	18	6
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	2	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	3	4	<1
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	1
Vanadium	ppm	<b>0</b>	0	0	0



#### Additives

Calcium	ppm	<b>58</b>	161	170	6
Magnesium	ppm	<b>1</b>	1	1	6
Zinc	ppm	<b>24</b>	20	36	3
Phosphorus	ppm	<b>2206</b>	1464	1445	1548
Barium	ppm	<b>2</b>	2	0	97
Boron	ppm	<b>3</b>	5	5	111

#### Diagnosis

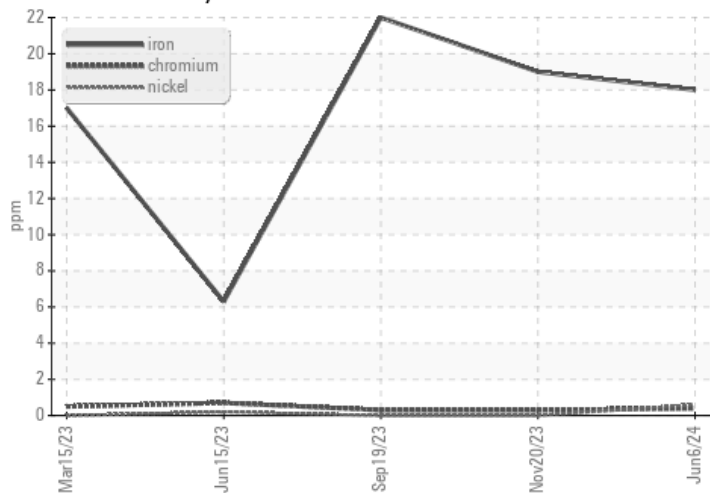
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** RECBRILH  
**Unique No:** 11088022  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2024

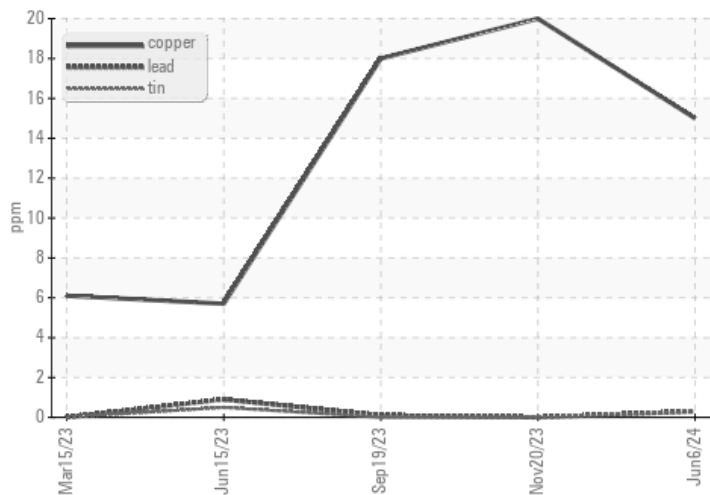


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

