

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[KIMMEL]] LIEBHERR LH50M 1216-117 615 - Swing Drive

Sample No: LH0268643

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>LH0268643</b>	LH06073288	LH0243174	LHMC155615
Sample Date	<b>20 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 Changd</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>182</b>	187	188	192
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#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	<b>21</b>	98	347	74
Copper	ppm	<b>20</b>	63	65	86
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	4	2	2
Aluminum	ppm	<b>0</b>	<1	0	<1
Chromium	ppm	<b>0</b>	<1	3	<1
Molybdenum	ppm	<b>0</b>	0	<1	<1
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	3	<1
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>5</b>	36	28	10
Magnesium	ppm	<b>&lt;1</b>	15	3	1
Zinc	ppm	<b>3</b>	29	19	7
Phosphorus	ppm	<b>2162</b>	2213	2204	2459
Barium	ppm	<b>0</b>	0	<1	0
Boron	ppm	<b>0</b>	1	11	27

#### Diagnosis

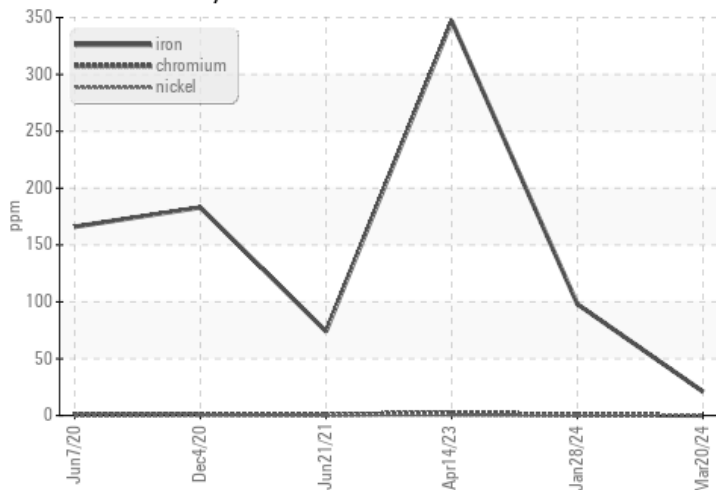
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** RECBRILH  
**Unique No:** 10939378  
**Signed:** Wes Davis  
**Report Date:** 24 Mar 2024

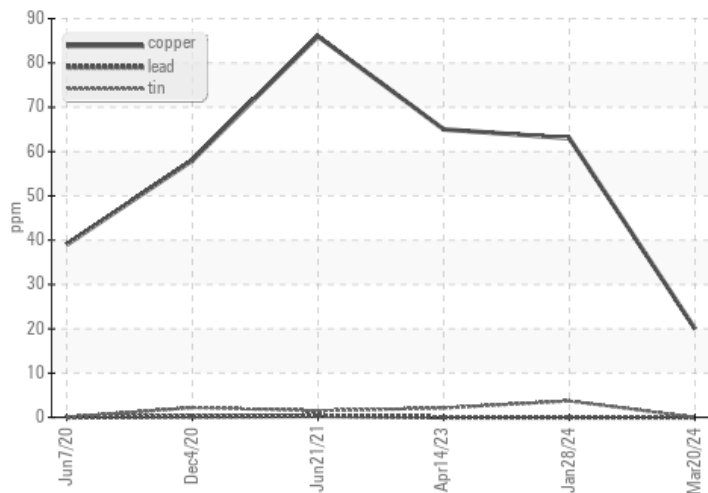


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

