

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 087885-1202 - Rear Left Wheel Hub

Sample No: LH0258372

Oil Type: GEAR OIL SAE 80W90



**HEAVY MACHINES INC**  
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#### Sample Information

Sample Number	LH0258372	LHMC155052	---	---
Sample Date	28 Apr 2024	21 Nov 2019	---	---
Machine Hours	15270	0	---	---
Oil Hours	0	1000	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 138	● 141	---	---
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#### Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 12	● 4	---	---
Sodium	ppm	● 9	● 8	---	---
Potassium	ppm	● <1	● 0	---	---



#### Wear Metals

Iron	ppm	● 1807	● 67	---	---
Copper	ppm	● 11	● 35	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 1	● <1	---	---
Chromium	ppm	● 6	● <1	---	---
Molybdenum	ppm	● <1	0	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	● <1	● 0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 14	1	---	---
Vanadium	ppm	<1	0	---	---



#### Additives

Calcium	ppm	● 49	61	---	---
Magnesium	ppm	● 4	3	---	---
Zinc	ppm	● 40	40	---	---
Phosphorus	ppm	● 1232	1078	---	---
Barium	ppm	● <1	0	---	---
Boron	ppm	● 27	102	---	---

#### Diagnosis

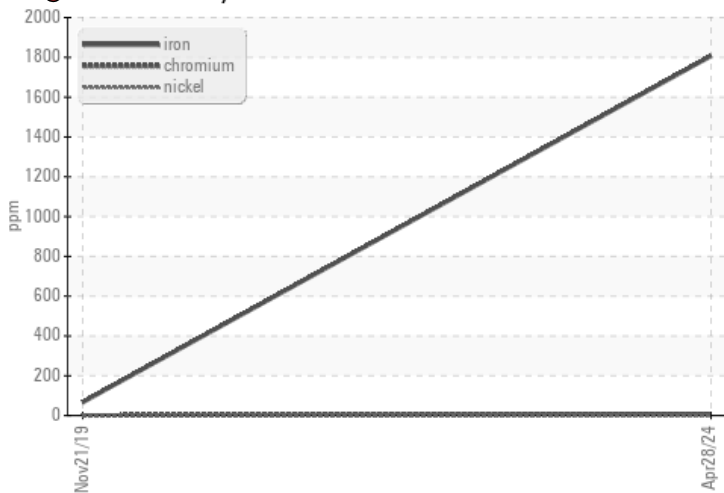
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: HEATHE  
 Unique No: 11008436  
 Signed: Jonathan Hester  
 Report Date: 07 May 2024

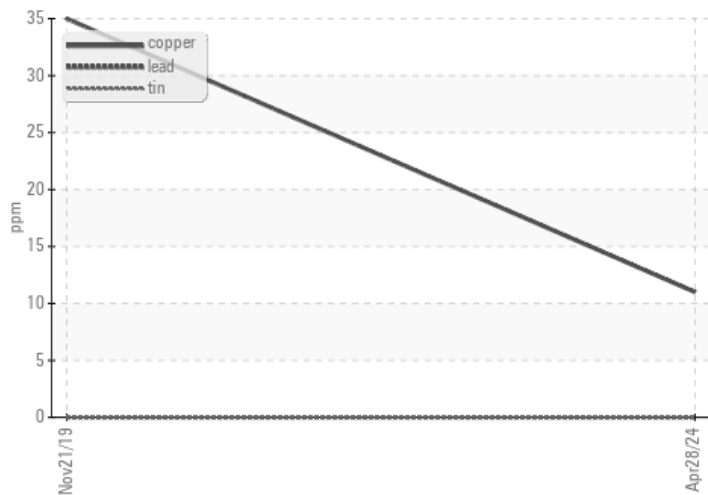


### Graphs

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

