

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 087885-1202 - Front Right Wheel Hub

Sample No: LH0258373

Oil Type: GEAR OIL SAE 80W90



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

Sample Number	LH0258373	LHMC155051	---	---
Sample Date	28 Apr 2024	21 Nov 2019	---	---
Machine Hours	15270	0	---	---
Oil Hours	0	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 130	● 139	---	---
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#### Contamination

Water	%	● 0.133	NEG	---	---
Silicon	ppm	● 27	● 6	---	---
Sodium	ppm	● 21	● 14	---	---
Potassium	ppm	● 2	● <1	---	---



#### Wear Metals

Iron	ppm	● 4175	● 242	---	---
Copper	ppm	● 188	● 15	---	---
Lead	ppm	● 2	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 7	● 4	---	---
Chromium	ppm	● 25	● 1	---	---
Molybdenum	ppm	● 4	0	---	---
Nickel	ppm	● 7	● 0	---	---
Titanium	ppm	● 0	● <1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 52	6	---	---
Vanadium	ppm	0	0	---	---



#### Additives

Calcium	ppm	● 52	153	---	---
Magnesium	ppm	● 3	3	---	---
Zinc	ppm	● 123	63	---	---
Phosphorus	ppm	● 1280	1578	---	---
Barium	ppm	● <1	0	---	---
Boron	ppm	● 68	3	---	---

#### Diagnosis

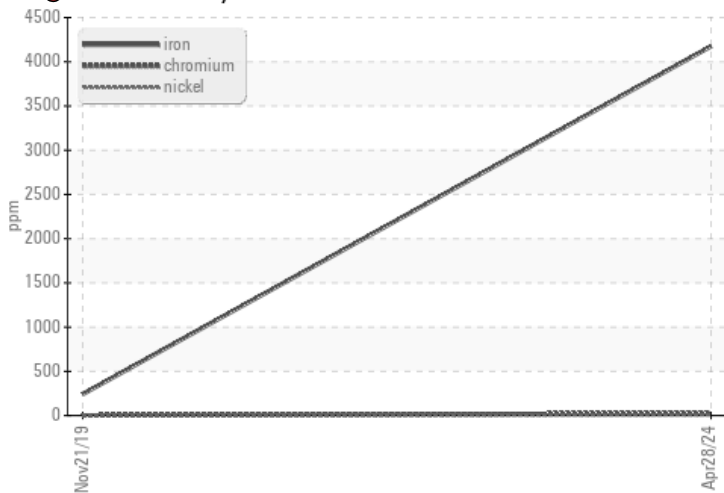
The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. Appearance is hazy. There is a trace of moisture present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: HEATHE  
 Unique No: 11009935  
 Signed: Jonathan Hester  
 Report Date: 08 May 2024

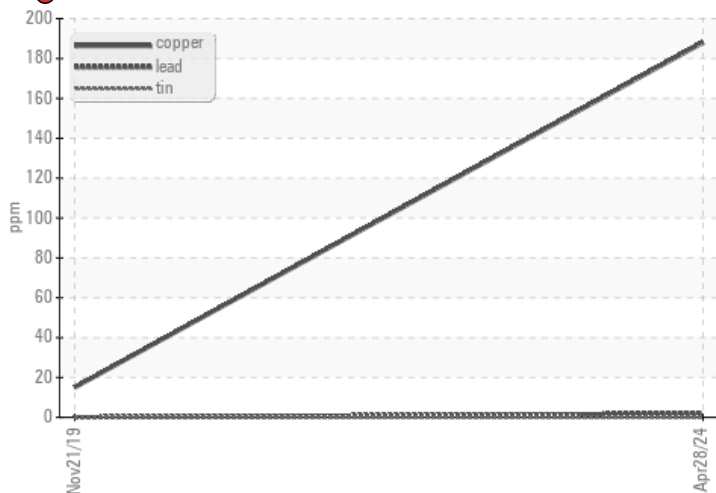


### Graphs

#### ● Ferrous Alloys



#### ● Non-ferrous Metals



#### Viscosity @ 40°C

