

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 120561-1217 - Rear Left Wheel Hub

Sample No: LH0253868

Oil Type: GEAR OIL SAE 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0253868</b>	LH0220677	LH0199945	---
Sample Date	<b>08 Sep 2023</b>	22 Nov 2022	11 Feb 2022	---
Machine Hours	<b>3762</b>	1973	983	---
Oil Hours	<b>0</b>	1000	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



#### OIL CONDITION

Visc @ 40°C	cSt	<b>169</b>	184	186	---
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#### CONTAMINATION

Silicon	ppm	<b>4</b>	4	3	---
Sodium	ppm	<b>4</b>	4	4	---
Potassium	ppm	<b>0</b>	0	0	---



#### WEAR METALS

Iron	ppm	<b>51</b>	99	35	---
Copper	ppm	<b>25</b>	28	17	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>2</b>	1	2	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>&lt;1</b>	0	<1	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>2</b>	2	1	---
Vanadium	ppm	<b>0</b>	0	0	---



#### ADDITIVES

Calcium	ppm	<b>16</b>	7	10	---
Magnesium	ppm	<b>2</b>	2	<1	---
Zinc	ppm	<b>19</b>	17	7	---
Phosphorus	ppm	<b>1087</b>	1082	1169	---
Barium	ppm	<b>267</b>	358	369	---
Boron	ppm	<b>&lt;1</b>	3	3	---

#### Diagnosis

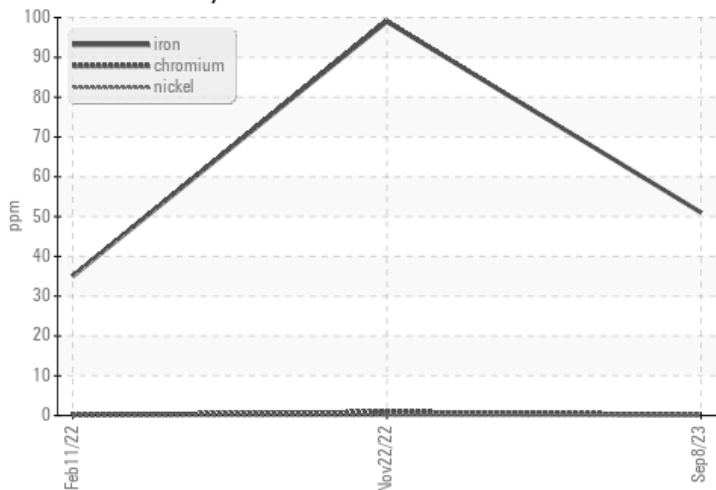
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0008  
**Unique No:** 10670881  
**Signed:** Don Baldrige  
**Report Date:** 01 Oct 2023

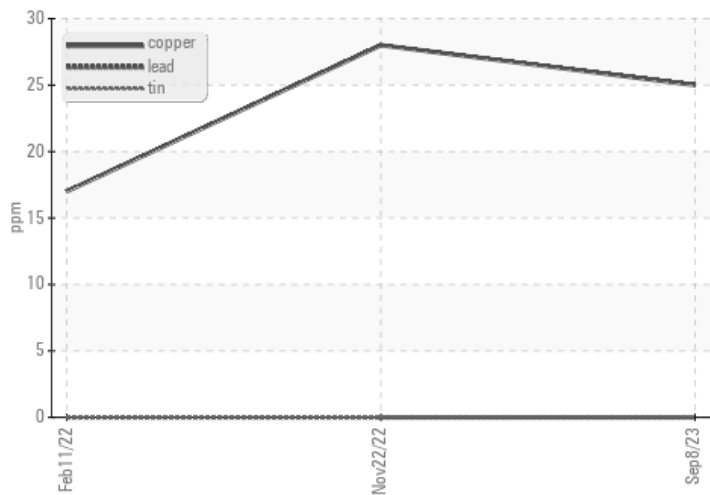


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

