

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 107076-1216 - Rear Left Wheel Hub

Sample No: LH0254694

Oil Type: GEAR OIL SAE 80W90



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

Sample Number	<b>LH0254694</b>	LH0245023	LH0236231	LH0207872
Sample Date	<b>08 Jun 2023</b>	10 Mar 2023	17 Oct 2022	20 Apr 2022
Machine Hours	<b>8928</b>	9953	9029	8173
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>121</b>	130	176	193
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#### CONTAMINATION

Silicon	ppm	<b>&lt;1</b>	2	2	2
Sodium	ppm	<b>&lt;1</b>	<1	2	2
Potassium	ppm	<b>1</b>	1	<1	<1



#### WEAR METALS

Iron	ppm	<b>6</b>	6	9	10
Copper	ppm	<b>2</b>	2	4	4
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>3</b>	<1	0	0
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>58</b>	38	7	2
Magnesium	ppm	<b>20</b>	5	<1	<1
Zinc	ppm	<b>27</b>	32	4	0
Phosphorus	ppm	<b>810</b>	763	2397	2302
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>17</b>	35	7	2

#### Diagnosis

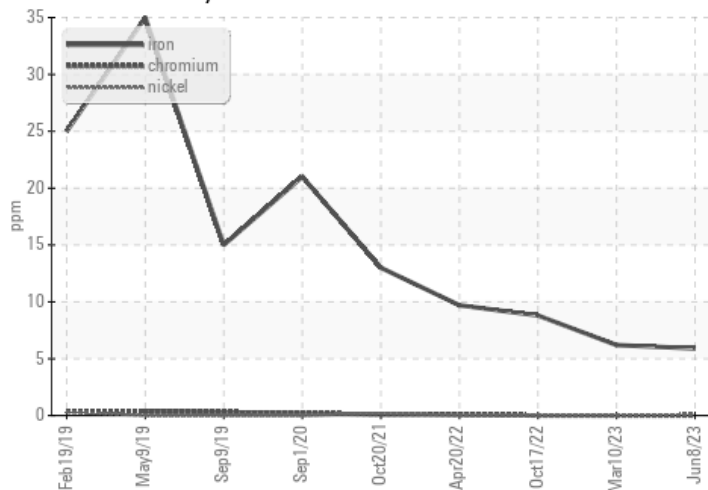
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0008  
**Unique No:** 10535774  
**Signed:** Don Baldrige  
**Report Date:** 30 Jun 2023

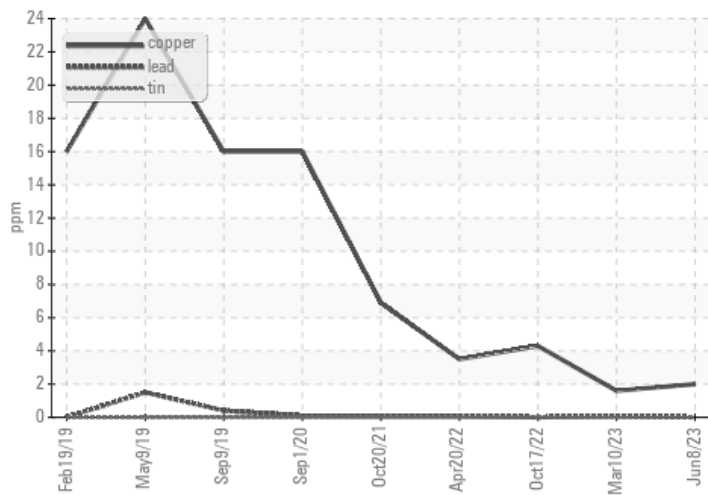


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

