

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1203-81839 - Front Right Wheel Hub

Sample No: LH0243625

Oil Type: GEAR OIL SAE 85W90



**AMERICAN STATE EQUIPMENT CO.**  
 2055 SOUTH 108TH STREET  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0243625</b>	LH0185296	LH0166798	LHMC148367
Sample Date	<b>27 Sep 2023</b>	04 Aug 2021	28 Sep 2020	15 May 2019
Machine Hours	<b>0</b>	7953	6978	4996
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>179</b>	178	151	186
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#### CONTAMINATION

Silicon	ppm	<b>4</b>	5	<1	5
Sodium	ppm	<b>7</b>	7	27	10
Potassium	ppm	<b>&lt;1</b>	1	1	<1



#### WEAR METALS

Iron	ppm	<b>72</b>	58	14	67
Copper	ppm	<b>2</b>	2	<1	3
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	0	0	2
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	1
Nickel	ppm	<b>0</b>	<1	2	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>1</b>	<1	<1	1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



#### ADDITIVES

Calcium	ppm	<b>25</b>	34	16	38
Magnesium	ppm	<b>4</b>	11	5	2
Zinc	ppm	<b>12</b>	12	0	20
Phosphorus	ppm	<b>2196</b>	2193	353	1807
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>13</b>	36	26	2

#### Diagnosis

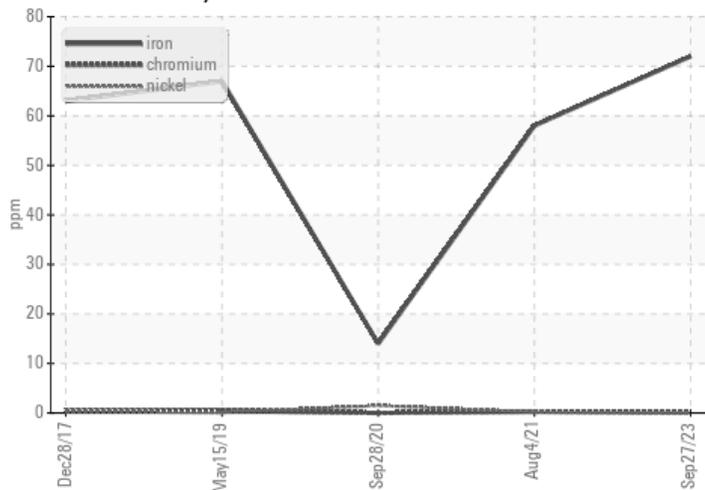
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0007  
**Unique No:** 10673827  
**Signed:** Sean Felton  
**Report Date:** 04 Oct 2023

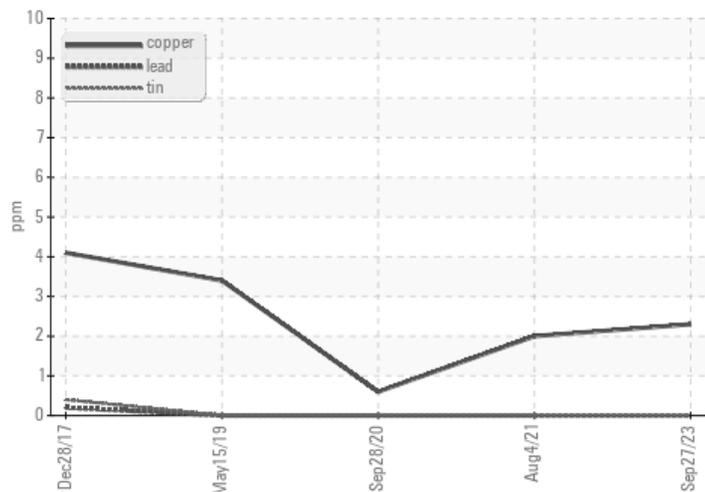


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

