

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-108671 - Front Right Wheel Hub

Sample No: LH0258826

Oil Type: GEAR OIL SAE 80W90



**AMERICAN STATE EQUIPMENT CO.**  
 2400 NORTH 14TH AVENUE  
 WAUSAU, WI  
 US 54401  
 Contact: CHRIS BARTNIK  
 cbartnik@amstate.com  
 T: (715)675-6900  
 F: (715)675-9748



#### SAMPLE INFORMATION

Sample Number	<b>LH0258826</b>	LH0263992	LH0243416	LH0254783
Sample Date	<b>23 Feb 2024</b>	14 Dec 2023	05 Sep 2023	12 Apr 2023
Machine Hours	<b>20036</b>	19125	17864	16979
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>122</b>	124	128	138
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>2</b>	2	2	2
Sodium	ppm	<b>3</b>	2	<1	1
Potassium	ppm	<b>2</b>	0	<1	0



#### WEAR METALS

Iron	ppm	<b>12</b>	14	16	18
Copper	ppm	<b>&lt;1</b>	<1	2	1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	0	0	0
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>0</b>	0	0	<1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	1	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	<1



#### ADDITIVES

Calcium	ppm	<b>59</b>	68	63	69
Magnesium	ppm	<b>9</b>	16	20	15
Zinc	ppm	<b>25</b>	22	22	29
Phosphorus	ppm	<b>845</b>	859	642	661
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	4	9	12

#### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

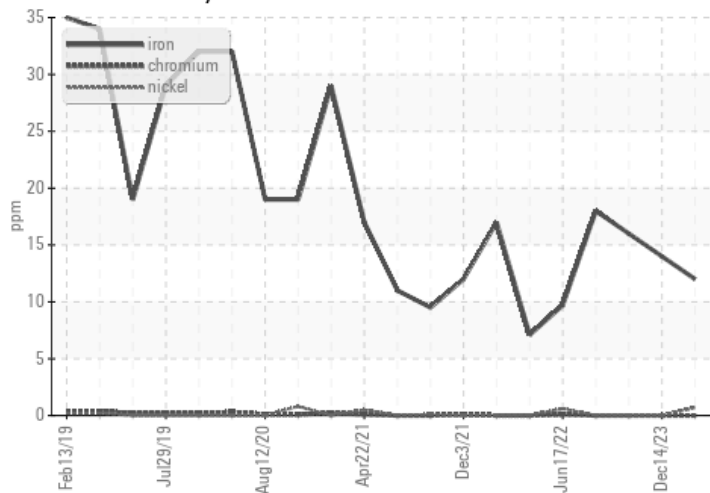
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0008  
**Unique No:** 10915876  
**Signed:** Wes Davis  
**Report Date:** 08 Mar 2024

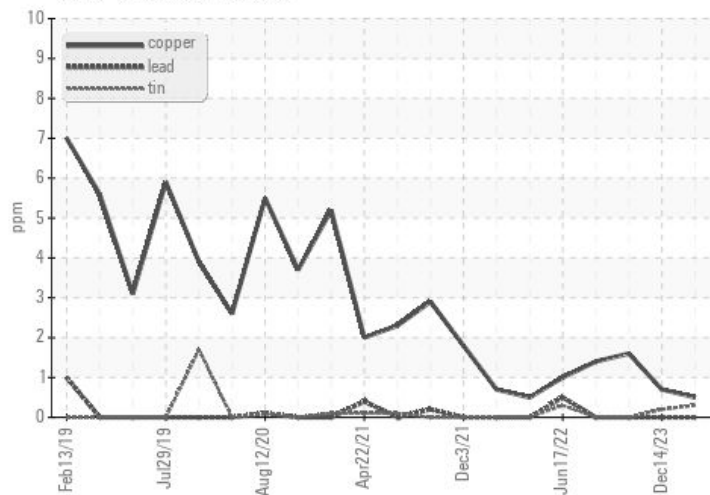


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

