

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60 107739-1217 - Front Left Wheel Hub

Sample No: LH0268106

Oil Type: LIEBHERR GEAR BASIC 90 LS



**FINKBINER EQUIPMENT CO.**  
 15 W 400 N FRONTAGE RD  
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 US 60527  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0268106</b>	LH0244203	LH0190702	LHMC141341
Sample Date	<b>23 Jan 2024</b>	26 Jan 2023	21 Jun 2021	15 Nov 2019
Machine Hours	<b>8998</b>	7471	4876	1922
Oil Hours	<b>1000</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	N/A	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>152</b>	139	180	191
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>26</b>	2	2	2
Sodium	ppm	<b>4</b>	0	2	4
Potassium	ppm	<b>2</b>	2	2	7



#### WEAR METALS

Iron	ppm	<b>104</b>	71	73	105
Copper	ppm	<b>41</b>	18	10	11
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>3</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>4</b>	<1	1	0
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>3</b>	1	2	2
Vanadium	ppm	<b>0</b>	0	0	<1



#### ADDITIVES

Calcium	ppm	<b>65</b>	15	25	18
Magnesium	ppm	<b>3</b>	4	7	<1
Zinc	ppm	<b>29</b>	18	19	18
Phosphorus	ppm	<b>1244</b>	1896	2164	1774
Barium	ppm	<b>1</b>	0	6	112
Boron	ppm	<b>4</b>	343	55	3

#### Diagnosis

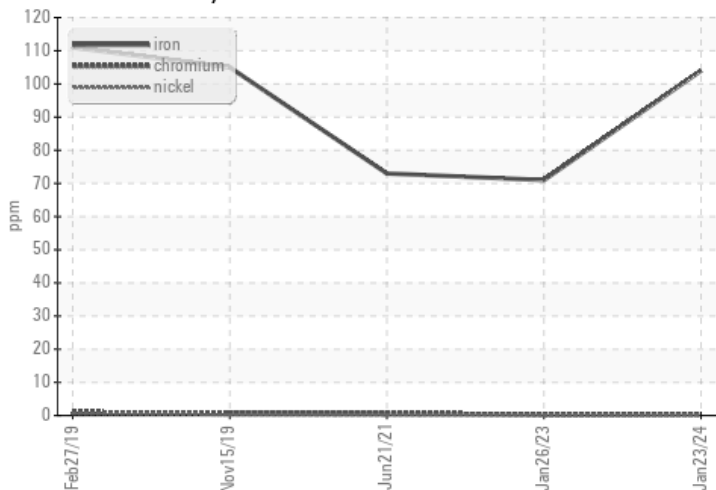
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0033  
**Unique No:** 10884175  
**Signed:** Don Baldrige  
**Report Date:** 18 Feb 2024

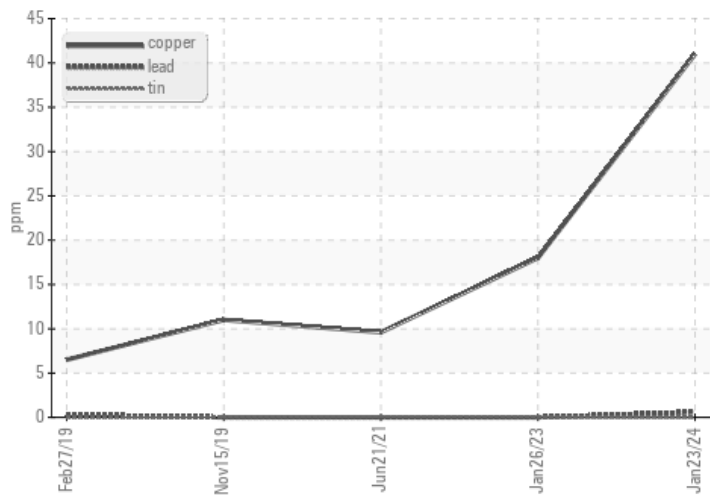


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

