

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 109502-1216 - Front Left Wheel Hub

Sample No: LH0258807

Oil Type: GEAR OIL SAE 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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 US 54401  
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#### SAMPLE INFORMATION

Sample Number	LH0258807	LHMC149785	---	---
Sample Date	04 Mar 2024	26 Feb 2019	---	---
Machine Hours	22219	827	---	---
Oil Hours	0	827	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	180	154.1	---	---
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#### CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	29	14	---	---
Sodium	ppm	18	6	---	---
Potassium	ppm	2	12	---	---



#### WEAR METALS

Iron	ppm	1196	61	---	---
Copper	ppm	40	10	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	3	2	---	---
Chromium	ppm	2	<1	---	---
Molybdenum	ppm	0	1	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	9	1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	114	171	---	---
Magnesium	ppm	2	2	---	---
Zinc	ppm	70	39	---	---
Phosphorus	ppm	2178	1955	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	5	---	---

#### Diagnosis

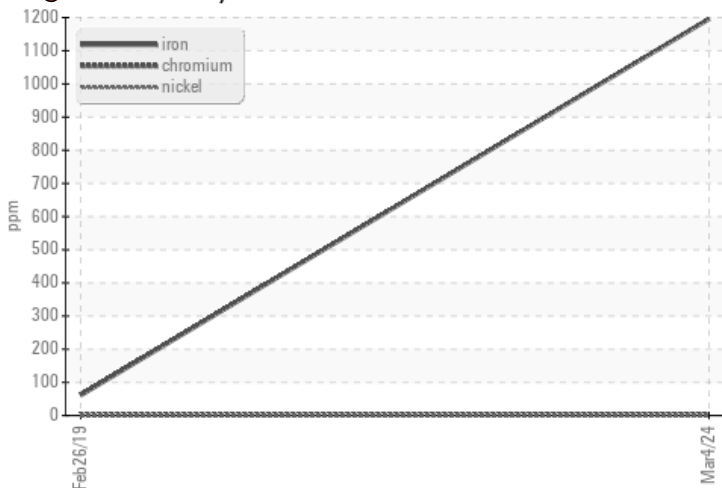
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LEC0008  
 Unique No: 10949547  
 Signed: Don Baldrige  
 Report Date: 29 Mar 2024

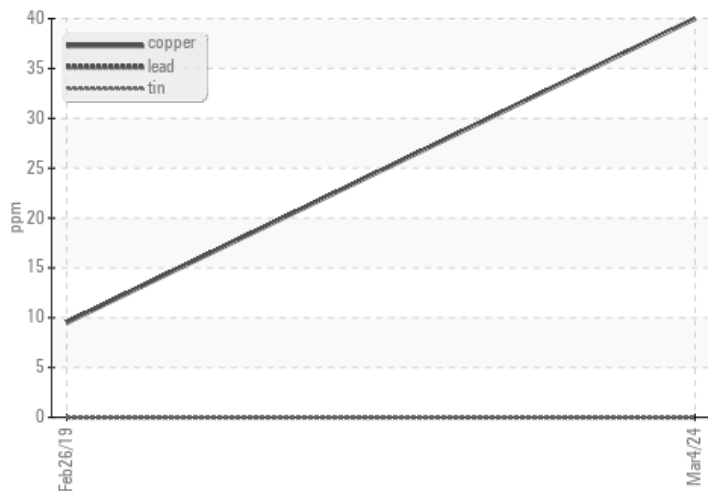


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

