

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-121548 - Front Right Wheel Hub

Sample No: LH0243397

Oil Type: GEAR OIL SAE 80W90



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

Sample Number	LH0243397	LH0263856	LH0236116	---
Sample Date	05 Oct 2023	18 Jul 2023	20 Jan 2023	---
Machine Hours	2969	2422	1172	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



#### OIL CONDITION

Visc @ 40°C	cSt	123	128	135	---
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#### CONTAMINATION

Silicon	ppm	10	7	10	---
Sodium	ppm	4	8	5	---
Potassium	ppm	<1	<1	1	---



#### WEAR METALS

Iron	ppm	23	29	39	---
Copper	ppm	1	4	6	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	<1	<1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	47	86	75	---
Magnesium	ppm	6	9	4	---
Zinc	ppm	6	38	30	---
Phosphorus	ppm	874	897	1134	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	<1	3	---

#### Diagnosis

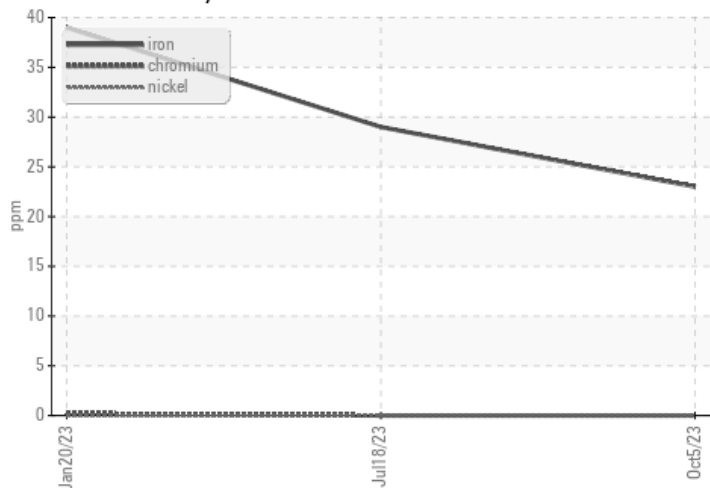
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10701552  
 Signed: Doug Bogart  
 Report Date: 20 Oct 2023

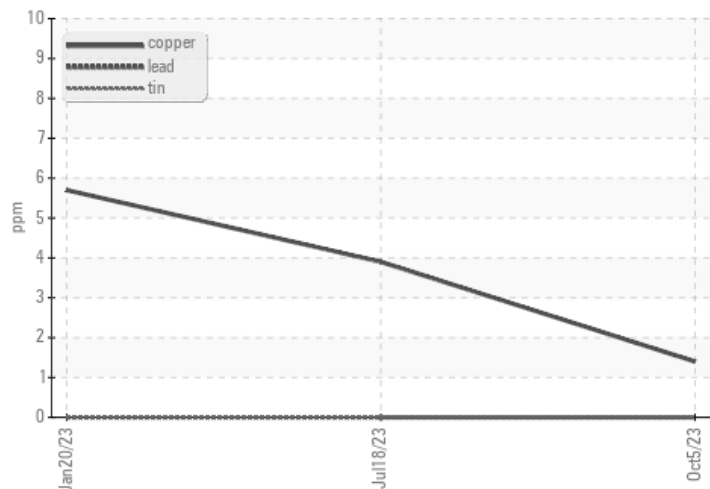


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

