

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A944 038730-194 - Front Left Final Drive

Sample No: LH0258823

Oil Type: GEAR OIL SAE 80W90



**ALTER METAL**  
 2080 SPINDT DR  
 WAUPACA, WI  
 US 54981  
 Contact: BRAD DORMADY  
 brad.dormady@altertrading.com  
 T:  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0258823	LH0264406	LH0185259	---
Sample Date	14 Feb 2024	28 Jun 2023	29 Jan 2021	---
Machine Hours	30984	29970	27384	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	SEVERE	---



#### OIL CONDITION

Visc @ 40°C	cSt	124	142	164	---
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	<1	2	21	---
Sodium	ppm	2	0	8	---
Potassium	ppm	0	5	9	---



#### WEAR METALS

Iron	ppm	38	51	863	---
Copper	ppm	10	16	223	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	0	<1	13	---
Chromium	ppm	0	<1	10	---
Molybdenum	ppm	0	<1	5	---
Nickel	ppm	0	0	3	---
Titanium	ppm	<1	<1	2	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	2	13	---
Vanadium	ppm	0	0	<1	---



#### ADDITIVES

Calcium	ppm	33	37	122	---
Magnesium	ppm	2	9	7	---
Zinc	ppm	12	45	242	---
Phosphorus	ppm	666	692	837	---
Barium	ppm	0	2	0	---
Boron	ppm	4	21	28	---

#### Diagnosis

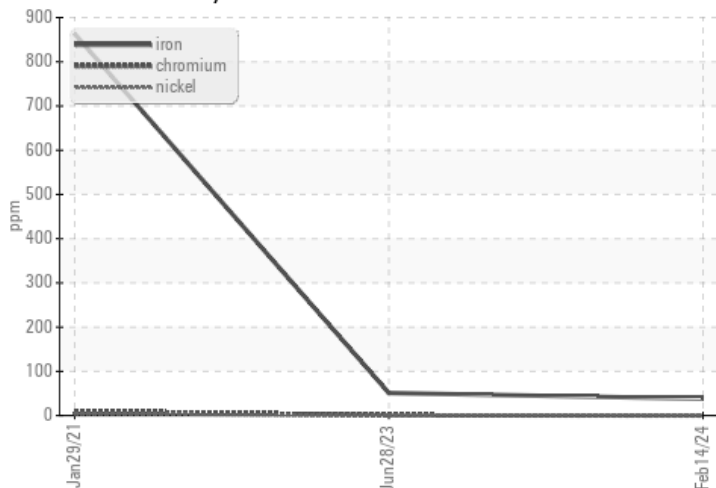
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTWAUWI  
 Unique No: 10896927  
 Signed: Wes Davis  
 Report Date: 26 Feb 2024

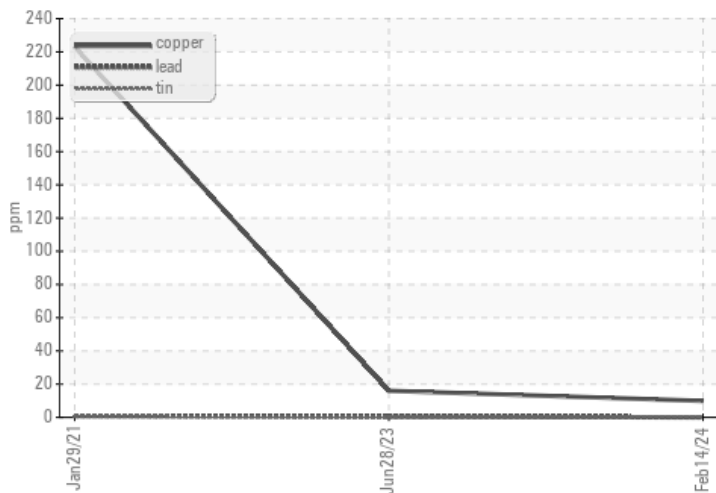


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

