

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0264406

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	LH0264406	LH0185259	---	---
Sample Date	28 Jun 2023	29 Jan 2021	---	---
Machine Hours	29970	27384	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	SEVERE	---	---



#### OIL CONDITION

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

Silicon	ppm	● 2	● 21	---	---
Sodium	ppm	● 0	● 8	---	---
Potassium	ppm	● 5	● 9	---	---



#### WEAR METALS

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



#### ADDITIVES

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

#### Diagnosis

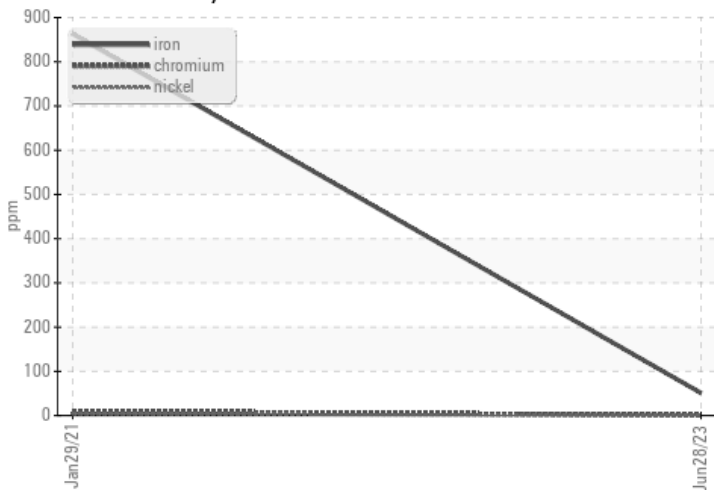
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** ALTWAUWI  
**Unique No:** 10546775  
**Signed:** Angela Borella  
**Report Date:** 07 Jul 2023

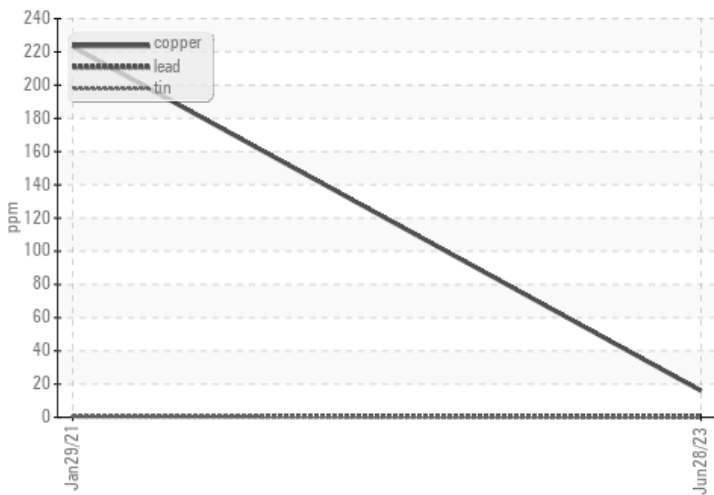


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

