

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0264405

Oil Type: GEAR OIL SAE 80W90



**ALTER METAL**  
 2080 SPINDT DR  
 WAUPACA, WI  
 US 54981  
 Contact: BRAD DORMADY  
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 T:  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0264405	LH0185260	---	---
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	● 169	---	---
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#### CONTAMINATION

Silicon	ppm	● 2	● 19	---	---
Sodium	ppm	● 0	● 8	---	---
Potassium	ppm	● 5	● 8	---	---



#### WEAR METALS

Iron	ppm	● 48	● 928	---	---
Copper	ppm	● 9	● 141	---	---
Lead	ppm	● 0	● 1	---	---
Tin	ppm	● 0	● <1	---	---
Aluminum	ppm	● <1	● 11	---	---
Chromium	ppm	● <1	● 11	---	---
Molybdenum	ppm	● <1	● 4	---	---
Nickel	ppm	● 0	● 3	---	---
Titanium	ppm	● 0	● 1	---	---
Silver	ppm	● 0	● <1	---	---
Manganese	ppm	● <1	● 12	---	---
Vanadium	ppm	● 0	● <1	---	---



#### ADDITIVES

Calcium	ppm	● 34	● 115	---	---
Magnesium	ppm	● 6	● 6	---	---
Zinc	ppm	● 26	● 185	---	---
Phosphorus	ppm	● 718	● 805	---	---
Barium	ppm	● 2	● 0	---	---
Boron	ppm	● 21	● 22	---	---

#### Diagnosis

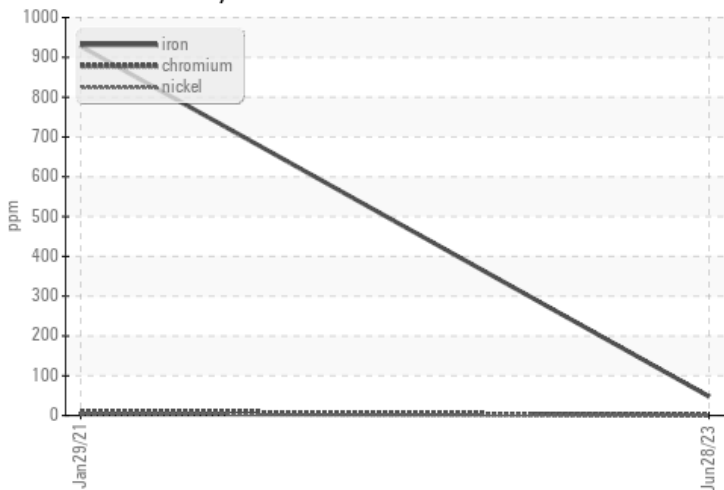
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: ALTWAUWI  
 Unique No: 10546782  
 Signed: Angela Borella  
 Report Date: 07 Jul 2023

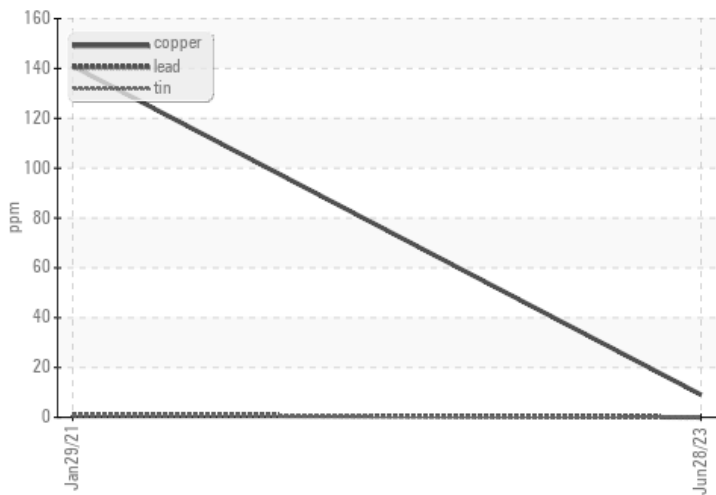


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

