

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L556 048223-1332 - Rear Differential

Sample No: LH0271987

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### Sample Information

Sample Number	LH0271987	---	---	---
Sample Date	13 May 2024	---	---	---
Machine Hours	1749	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**LIEBHERR EQUIPMENT SOURCE**  
 8200 FAYETTEVILLE ROAD  
 RALEIGH, NC  
 US 27603  
 Contact: JOSEPH GERMERO  
 joseph.germeroth@liebherr.com  
 T:  
 F: (919)329-0084



#### Oil Condition

Visc @ 40°C	cSt	● 168	---	---	---
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#### Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 12	---	---	---
Sodium	ppm	● 4	---	---	---
Potassium	ppm	● <1	---	---	---



#### Wear Metals

Iron	ppm	● 73	---	---	---
Copper	ppm	● 102	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 1	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 9	---	---	---
Nickel	ppm	● 1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● 12	---	---	---
Vanadium	ppm	0	---	---	---



#### Additives

Calcium	ppm	● 255	---	---	---
Magnesium	ppm	● 5	---	---	---
Zinc	ppm	● 51	---	---	---
Phosphorus	ppm	● 2143	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 8	---	---	---

#### Diagnosis

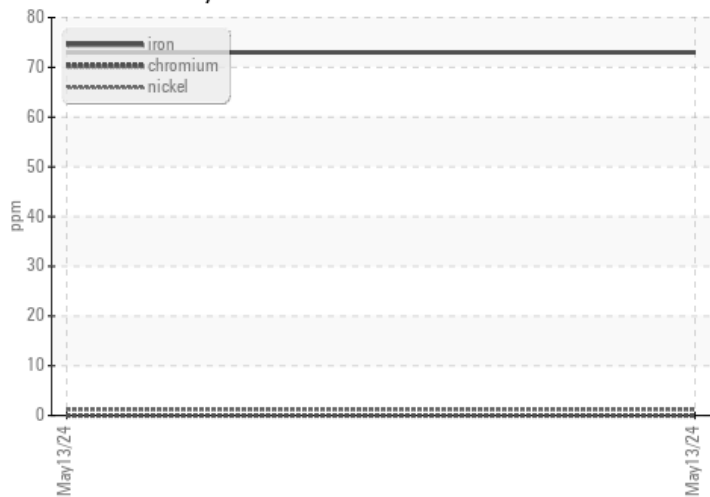
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LIEBHERRNC  
**Unique No:** 11047559  
**Signed:** Sean Felton  
**Report Date:** 29 May 2024

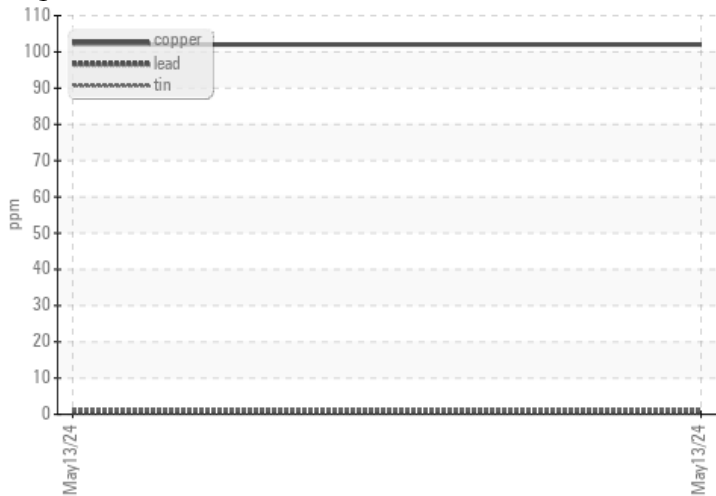


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

