

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L566 062340-1758 - Rear Differential

Sample No: LH0258482

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0258482	LH0268236	---	---
Sample Date	14 Mar 2024	04 Mar 2024	---	---
Machine Hours	4766	4671	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

**HEAVY MACHINES INC**  
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 THEODORE, AL  
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 Contact: KONSTANTINA CHARMANTA  
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 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	● 194	● 193	---	---
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#### CONTAMINATION

Water	%	● 0.917	NEG	---	---
Silicon	ppm	● 12	● 32	---	---
Sodium	ppm	● <1	● 12	---	---
Potassium	ppm	● 1	● 0	---	---



#### WEAR METALS

Iron	ppm	● 272	● 688	---	---
Copper	ppm	● 300	● 371	---	---
Lead	ppm	● 1	● 7	---	---
Tin	ppm	● 9	● 21	---	---
Aluminum	ppm	● 3	● 3	---	---
Chromium	ppm	● 2	● 4	---	---
Molybdenum	ppm	● <1	● 0	---	---
Nickel	ppm	● 4	● 11	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 20	45	---	---
Vanadium	ppm	<1	0	---	---



#### ADDITIVES

Calcium	ppm	● 108	● 12	---	---
Magnesium	ppm	● 3	● <1	---	---
Zinc	ppm	● 84	● 81	---	---
Phosphorus	ppm	● 2299	● 2194	---	---
Barium	ppm	● 1	● 0	---	---
Boron	ppm	● 2	● 2	---	---

#### Diagnosis

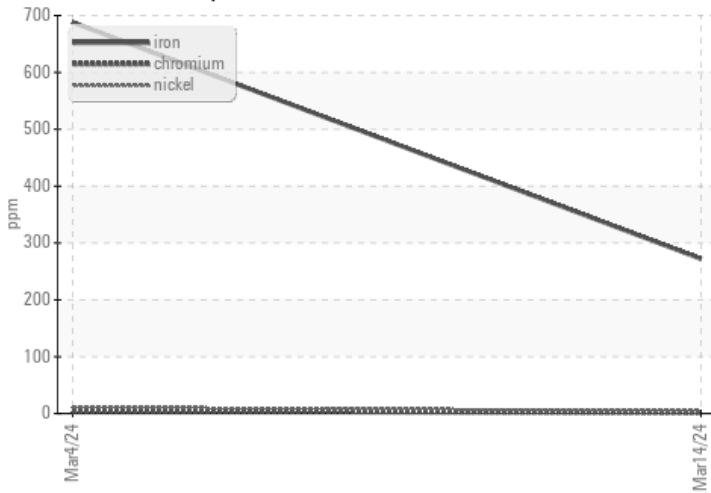
We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. There is a high concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: HEATHE  
 Unique No: 10943042  
 Signed: Jonathan Hester  
 Report Date: 28 Mar 2024

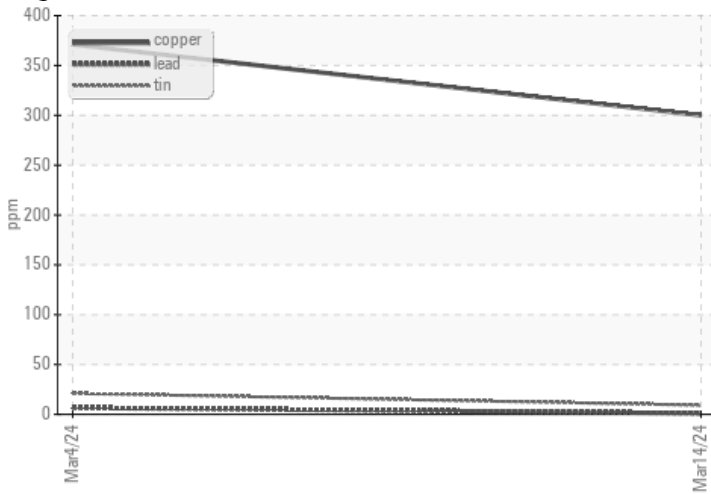


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

