

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 093999-1215 - Front Differential

Sample No: LH0243901

Oil Type: LIEBHERR GEAR BASIC 90 LS



**LIEBHERR EQUIPMENT SOURCE**  
 4100 CHESTNUT AVENUE  
 NEWPORT NEWS, VA  
 US 23607  
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#### SAMPLE INFORMATION

Sample Number	LH0243901	---	---	---
Sample Date	28 Feb 2024	---	---	---
Machine Hours	13886	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 191	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● 4	---	---	---
Potassium	ppm	● 1	---	---	---



#### WEAR METALS

Iron	ppm	● 47	---	---	---
Copper	ppm	● 27	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 7	---	---	---
Magnesium	ppm	● 1	---	---	---
Zinc	ppm	23	---	---	---
Phosphorus	ppm	● 2263	---	---	---
Barium	ppm	● 3	---	---	---
Boron	ppm	● 0	---	---	---

#### Diagnosis

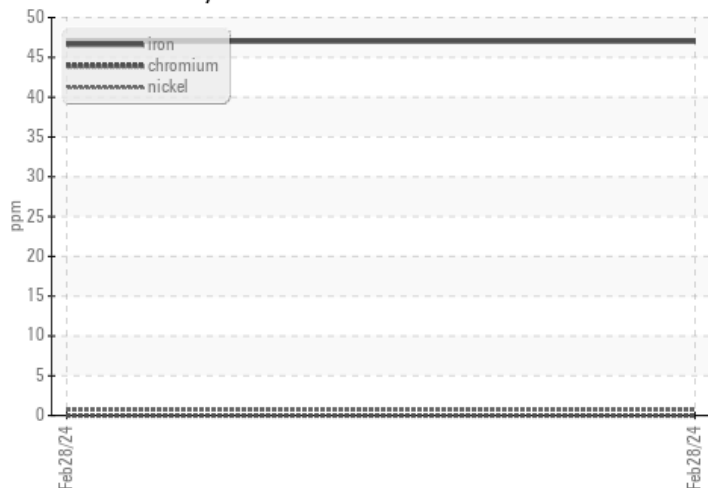
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS  
 Unique No: 10915865  
 Signed: Wes Davis  
 Report Date: 12 Mar 2024



### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

