

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 093999-1215 - Rear Differential

Sample No: LH0243895

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	LH0243895	---	---	---
Sample Date	28 Feb 2024	---	---	---
Machine Hours	13886	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 188	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 10	---	---	---
Sodium	ppm	● 12	---	---	---
Potassium	ppm	● 4	---	---	---



#### WEAR METALS

Iron	ppm	● 893	---	---	---
Copper	ppm	● 85	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 6	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 10	---	---	---
Vanadium	ppm	<1	---	---	---



#### ADDITIVES

Calcium	ppm	19	---	---	---
Magnesium	ppm	● 2	---	---	---
Zinc	ppm	● 67	---	---	---
Phosphorus	ppm	● 2150	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

#### Diagnosis

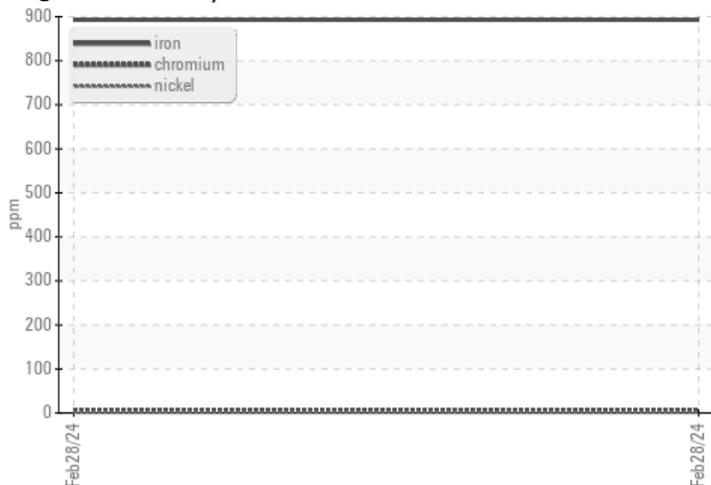
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS  
Unique No: 10915860  
Signed: Doug Bogart  
Report Date: 14 Mar 2024

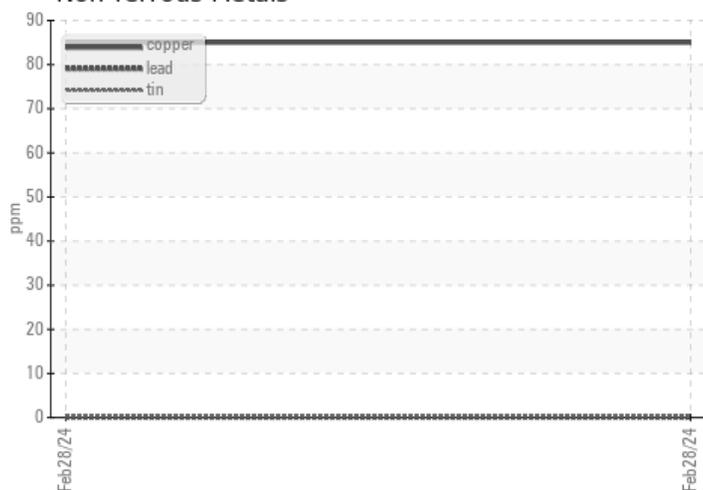


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

