

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LTM1120-4.1 081556 - Gearbox

Sample No: LH0259075

Oil Type: LIEBHERR GEAR HYPOID 90 EP



#### SAMPLE INFORMATION

Sample Number	LH0259075	---	---	---
Sample Date	22 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES  
 4100 CHESTNUT AVENUE  
 NEWPORT NEWS, VA  
 US 23607  
 Contact: TERENCE VANDERLENDE  
 TERENCE.VANDERLENDE@LIEBHERR.COM  
 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	● 153	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 4	---	---	---
Potassium	ppm	● <1	---	---	---



#### WEAR METALS

Iron	ppm	● 29	---	---	---
Copper	ppm	● 152	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 12	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 53	---	---	---
Magnesium	ppm	● 682	---	---	---
Zinc	ppm	● 23	---	---	---
Phosphorus	ppm	● 1289	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 415	---	---	---

#### Diagnosis

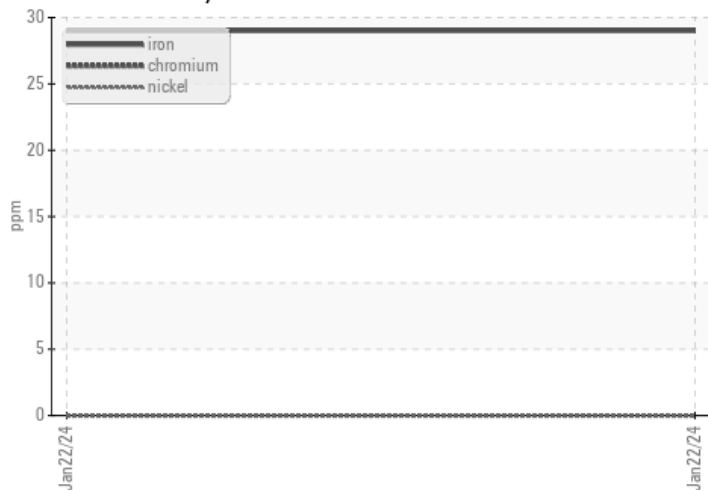
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The tin level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition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

Depot: LIENEW  
 Unique No: 10846814  
 Signed: Sean Felton  
 Report Date: 26 Jan 2024

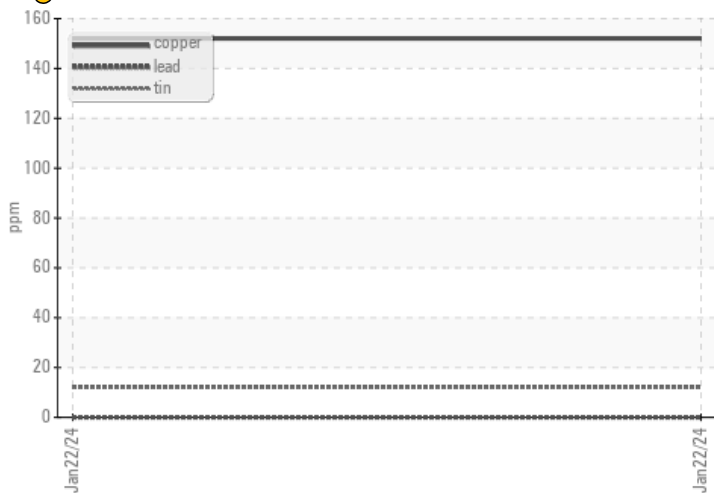


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

