

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LV20F110816 - HAMMER - Gearbox

Sample No: LH0273739

Oil Type: LIEBHERR GEAR PG 220



#### SAMPLE INFORMATION

Sample Number	LH0273739	---	---	---
Sample Date	08 Feb 2024	---	---	---
Machine Hours	150	---	---	---
Oil Hours	150	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

**PETERSON CONTRACTORS INC**  
 PO BOX A  
 REINBECK, IA  
 US 50669  
 Contact: WADE VANHAVEN  
 MBERWALD@PCIUS.COM  
 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	● 246	---	---	---
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#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	● 437	---	---	---
Copper	ppm	● 11	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 4	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 6	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	34	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 36	---	---	---
Phosphorus	ppm	● 427	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 22	---	---	---

#### Diagnosis

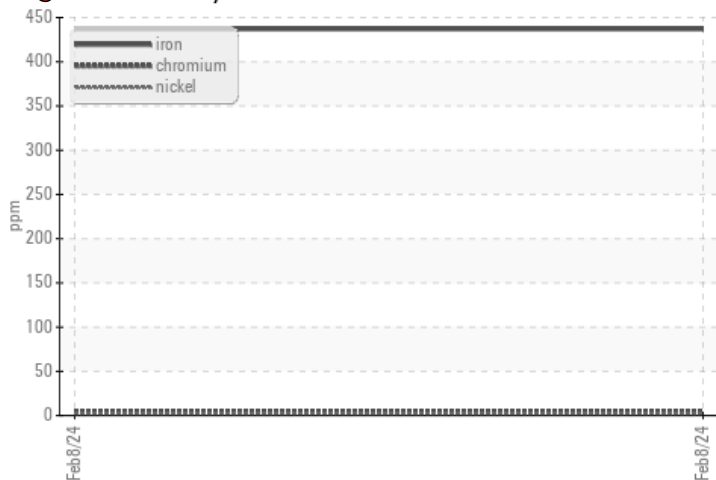
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** PETREILH  
**Unique No:** 10875822  
**Signed:** Sean Felton  
**Report Date:** 15 Feb 2024

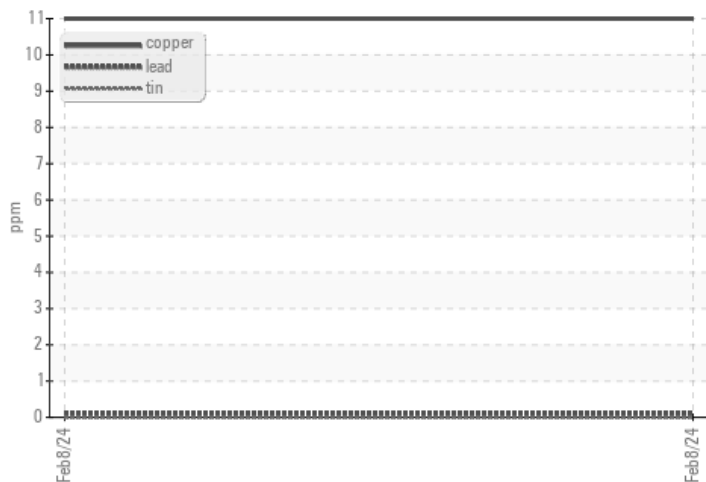


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

