

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR TA230 144017-1513 -Rear Axle

Sample No: LH0268551

Oil Type: LIEBHERR GEAR MF 80W



#### SAMPLE INFORMATION

Sample Number	LH0268551	---	---	---
Sample Date	11 Oct 2023	---	---	---
Machine Hours	1356	---	---	---
Oil Hours	671	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

#### LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD

RALEIGH, NC

US 27603

Contact: TRAVIS EGAN

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T:

F: (919)329-0084



#### OIL CONDITION

Visc @ 40°C	cSt	● 57.0	---	---	---
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#### CONTAMINATION

Silicon	ppm	● 15	---	---	---
Sodium	ppm	● 8	---	---	---
Potassium	ppm	● <1	---	---	---

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper 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.



#### WEAR METALS

Iron	ppm	● 131	---	---	---
Copper	ppm	● 74	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 2	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 8	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 26	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 3188	---	---	---
Magnesium	ppm	● 5	---	---	---
Zinc	ppm	● 1407	---	---	---
Phosphorus	ppm	● 1079	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 41	---	---	---

Depot: LIEBHERRNC

Unique No: 10697341

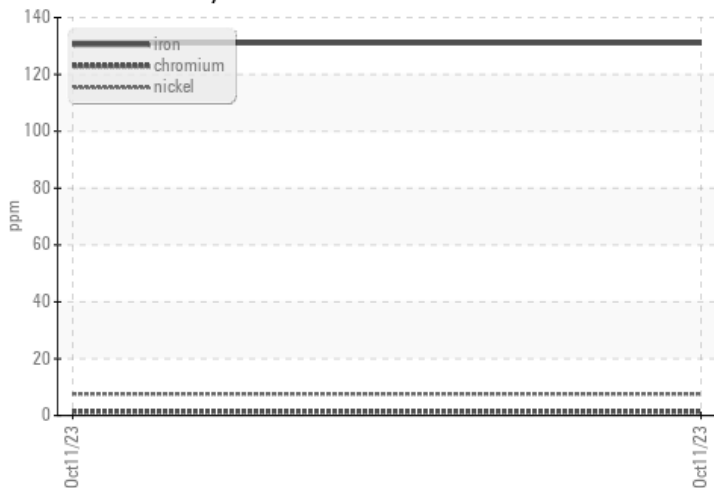
Signed: Don Baldrige

Report Date: 18 Oct 2023

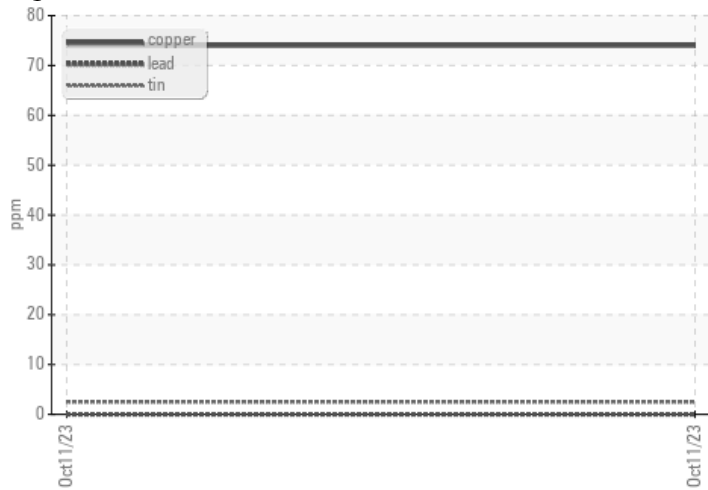


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

