

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 066954-1760 - Front Differential

Sample No: LH0243638

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0243638	---	---	---
Sample Date	17 Aug 2023	---	---	---
Machine Hours	1464	---	---	---
Oil Hours	650	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**AMERICAN STATE EQUIPMENT CO.**  
 2055 SOUTH 108TH STREET  
 MILWAUKEE, WI  
 US 53227  
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 T: (414)234-0854  
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#### OIL CONDITION

Visc @ 40°C	cSt	● 189	---	---	---
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#### CONTAMINATION

Silicon	ppm	● 32	---	---	---
Sodium	ppm	● 7	---	---	---
Potassium	ppm	● 1	---	---	---



#### WEAR METALS

Iron	ppm	● 230	---	---	---
Copper	ppm	● 173	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 10	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 37	---	---	---
Vanadium	ppm	● 0	---	---	---



#### ADDITIVES

Calcium	ppm	● 10	---	---	---
Magnesium	ppm	● 2	---	---	---
Zinc	ppm	● 150	---	---	---
Phosphorus	ppm	● 2139	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 4	---	---	---

#### Diagnosis

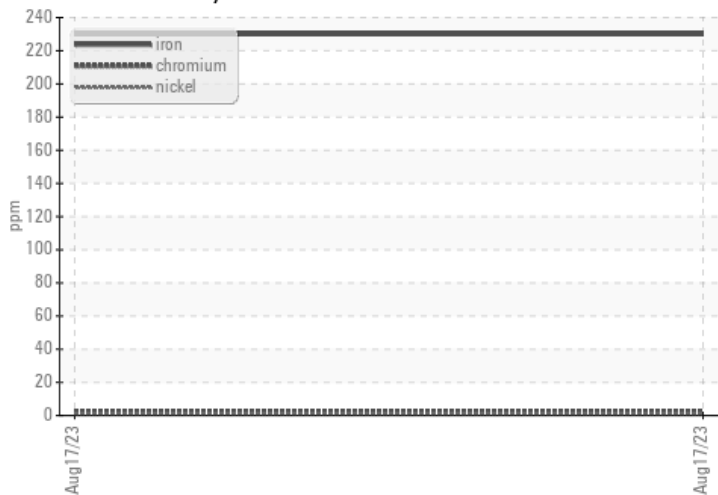
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time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

**Depot:** LEC0007  
**Unique No:** 10630991  
**Signed:** Sean Felton  
**Report Date:** 05 Sep 2023

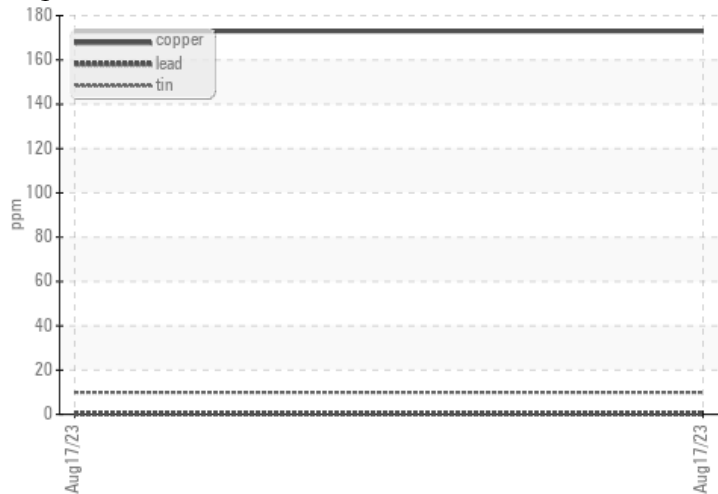


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

