

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R945 055722-1866 - Left Final Drive

Sample No: LH0254651

Oil Type: LIEBHERR GEAR BASIC 90 LS



**FINKBINER EQUIPMENT CO.**  
 15 W 400 N FRONTAGE RD  
 BURR RIDGE, IL  
 US 60527  
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 T: (815)546-8991  
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#### SAMPLE INFORMATION

Sample Number	LH0254651	---	---	---
Sample Date	15 Aug 2023	---	---	---
Machine Hours	1076	---	---	---
Oil Hours	1076	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



#### OIL CONDITION

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

Silicon	ppm	● 137	---	---	---
Sodium	ppm	● 6	---	---	---
Potassium	ppm	● 13	---	---	---



#### WEAR METALS

Iron	ppm	● 156	---	---	---
Copper	ppm	● <1	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 29	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 1	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 3	---	---	---
Vanadium	ppm	<1	---	---	---



#### ADDITIVES

Calcium	ppm	● 90	---	---	---
Magnesium	ppm	● 42	---	---	---
Zinc	ppm	● 21	---	---	---
Phosphorus	ppm	● 1228	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

#### Diagnosis

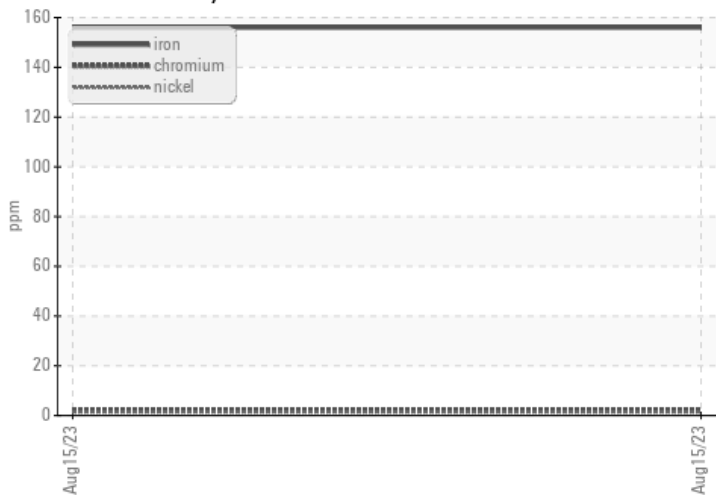
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0033  
**Unique No:** 10632186  
**Signed:** Doug Bogart  
**Report Date:** 05 Sep 2023

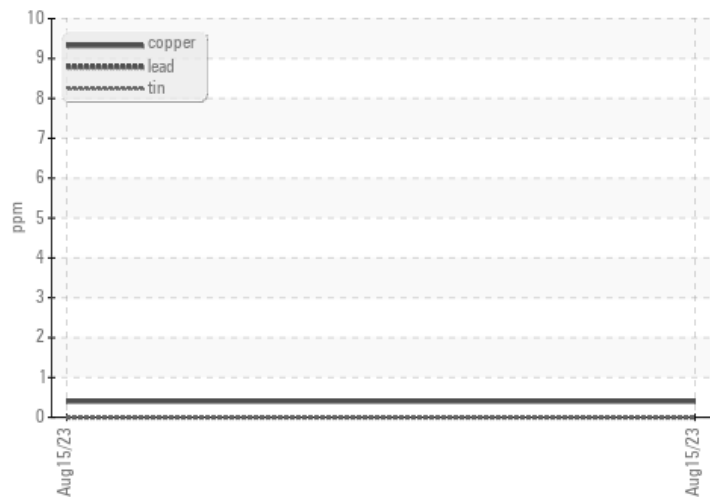


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

