

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R966 31602 (S/N 1783-53867) - Gearbox

Sample No: LH0293223

Oil Type: LIEBHERR GEAR BASIC 90 LS



**LIEBHERR EQUIPMENT SOURCE**  
 8200 FAYETTEVILLE ROAD  
 RALEIGH, NC  
 US 27603  
 Contact: SHERWOOD LUCAS  
 sherwood.lucas@liebherr.com  
 T:  
 F: (919)329-0084



#### Sample Information

Sample Number	LH0293223	---	---	---
Sample Date	26 Jun 2024	---	---	---
Machine Hours	955	---	---	---
Oil Hours	955	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 145	---	---	---
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#### Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● <1	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 2	---	---	---



#### Wear Metals

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



#### Additives

Calcium	ppm	● 14	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 15	---	---	---
Phosphorus	ppm	801	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 7	---	---	---

#### Diagnosis

Resample at the next service interval to monitor. All 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.

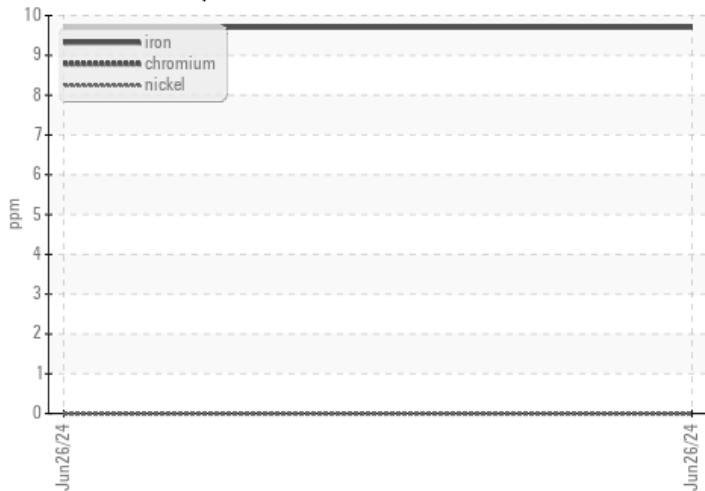
Depot: LIEBHERRNC  
 Unique No: 11102050  
 Signed: Don Baldrige  
 Report Date: 01 Jul 2024

Submitted By: SHERWOOD LUCAS

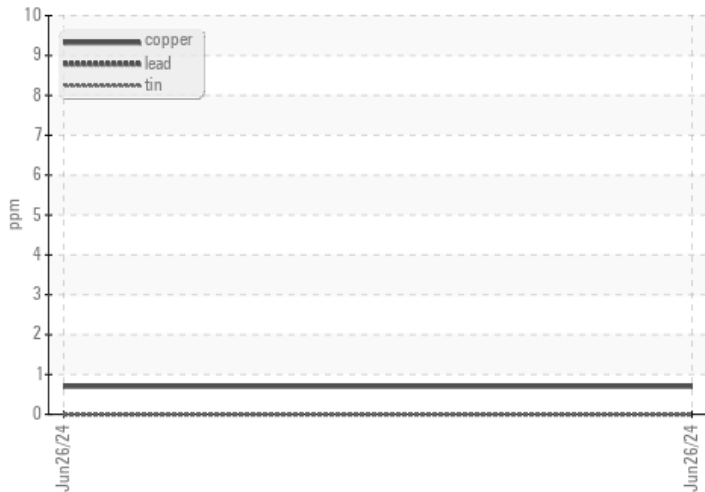


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

