

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 1217-117421 - Swing Drive

Sample No: LH0264523

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	LH0264523	---	---	---
Sample Date	19 Jun 2024	---	---	---
Machine Hours	6480	---	---	---
Oil Hours	6480	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 248	---	---	---
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#### Contamination

Water	%	● 0.792	---	---	---
Silicon	ppm	● 4	---	---	---
Sodium	ppm	● <1	---	---	---
Potassium	ppm	● 1	---	---	---



#### Wear Metals

Iron	ppm	● 1012	---	---	---
Copper	ppm	● 185	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 3	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 12	---	---	---
Molybdenum	ppm	● 1	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● 8	---	---	---
Vanadium	ppm	<1	---	---	---



#### Additives

Calcium	ppm	● 1	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 12	---	---	---
Phosphorus	ppm	● 2419	---	---	---
Barium	ppm	● 5	---	---	---
Boron	ppm	● 2	---	---	---

#### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRNC  
 Unique No: 11096827  
 Signed: Sean Felton  
 Report Date: 26 Jun 2024

Submitted By: SHERWOOD LUCAS

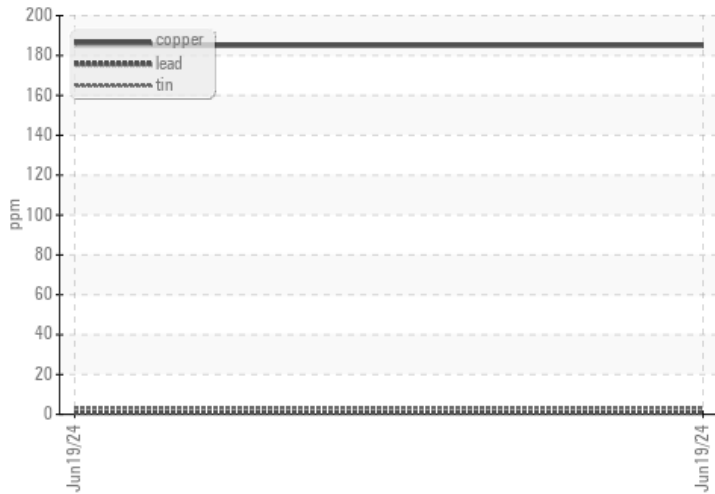


### Graphs

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

