

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 121598-1216 - Rear Differential

Sample No: LH0258813  
 Oil Type: GEAR OIL SAE 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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#### Sample Information

Sample Number	LH0258813	---	---	---
Sample Date	25 Apr 2024	---	---	---
Machine Hours	4279	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 119	---	---	---
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#### Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 1	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● <1	---	---	---



#### Wear Metals

Iron	ppm	● 18	---	---	---
Copper	ppm	● 5	---	---	---
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	0	---	---	---



#### Additives

Calcium	ppm	● 9	---	---	---
Magnesium	ppm	● 0	---	---	---
Zinc	ppm	0	---	---	---
Phosphorus	ppm	● 815	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	0	---	---	---

#### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

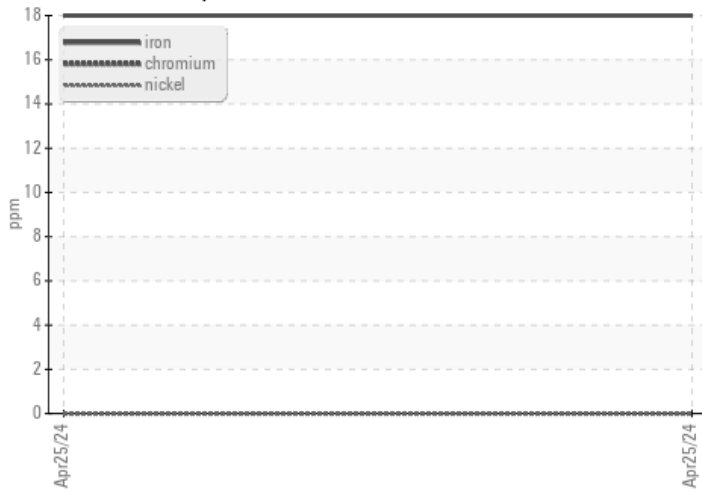
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 11022372  
 Signed: Wes Davis  
 Report Date: 13 May 2024

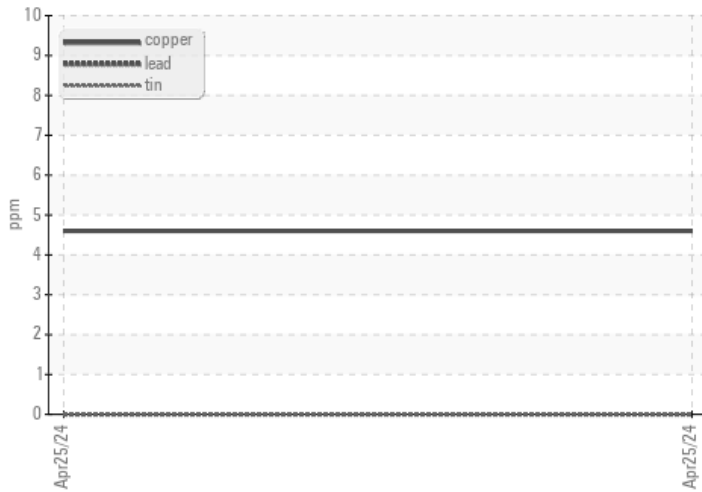


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

