

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L18 L1819 - Gearbox

Sample No: LH0273718

Oil Type: LIEBHERR SYNTOGEAR PLUS 220



#### Sample Information

Sample Number	LH0273718	---	---	---
Sample Date	22 Jun 2024	---	---	---
Machine Hours	833	---	---	---
Oil Hours	81	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**PETERSON CONTRACTORS INC**  
 PO BOX A  
 REINBECK, IA  
 US 50669  
 Contact: WADE VANHAVEN  
 MBERWALD@PCIUS.COM  
 T:  
 F:



#### Oil Condition

Visc @ 40°C	cSt	● 230	---	---	---
-------------	-----	-------	-----	-----	-----



#### Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 4	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 2	---	---	---

#### 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.



#### Wear Metals

Iron	ppm	● 108	---	---	---
Copper	ppm	● 3	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 1	---	---	---
Molybdenum	ppm	● 1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● 1	---	---	---
Vanadium	ppm	<1	---	---	---



#### Additives

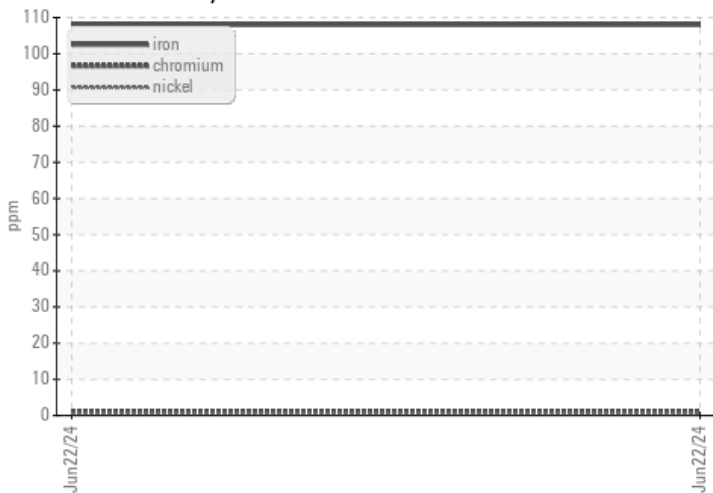
Calcium	ppm	● 8	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 9	---	---	---
Phosphorus	ppm	● 397	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 19	---	---	---

**Depot:** PETREILH  
**Unique No:** 11103624  
**Signed:** Jonathan Hester  
**Report Date:** 03 Jul 2024

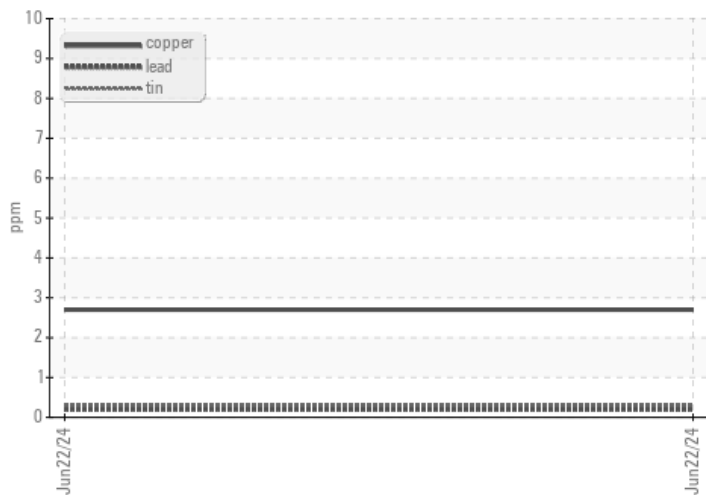


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

