

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L18 L1813 (S/N 111090) - Diesel Engine

Sample No: LH0273738

Oil Type: LIEBHERR MOTOROIL 5W30



#### SAMPLE INFORMATION

Sample Number	LH0273738	---	---	---
Sample Date	08 Feb 2024	---	---	---
Machine Hours	3500	---	---	---
Oil Hours	500	---	---	---
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 @ 100°C	cSt	12.3	---	---	---
Base Number (BN)	mg KOH/g	8.7	---	---	---
Oxidation (PA)	%	71	---	---	---

#### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



#### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	98	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	17	---	---	---



#### WEAR METALS

Iron	ppm	9	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	7	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	18	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

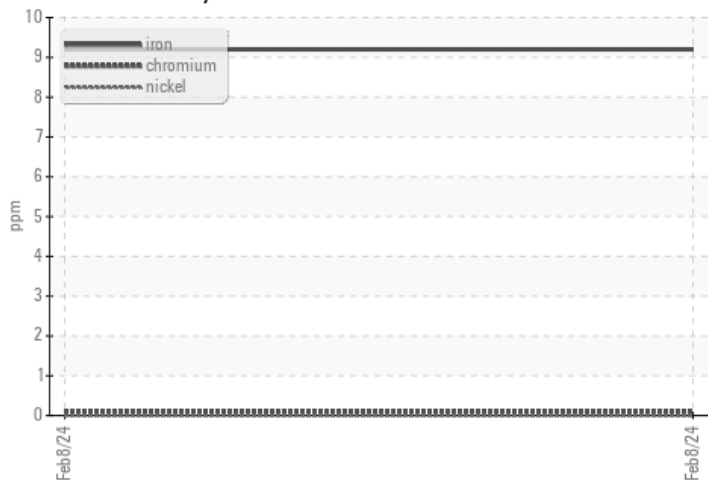
Calcium	ppm	2525	---	---	---
Magnesium	ppm	505	---	---	---
Zinc	ppm	1027	---	---	---
Phosphorus	ppm	902	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	156	---	---	---

**Depot:** PETREILH  
**Unique No:** 10875372  
**Signed:** Wes Davis  
**Report Date:** 14 Feb 2024

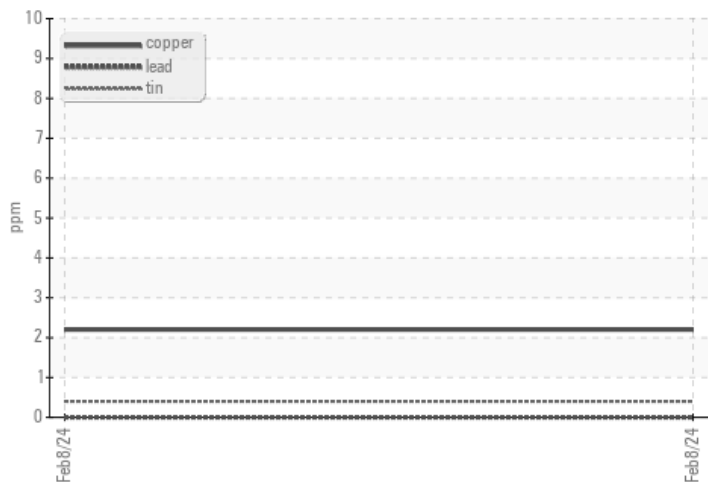


### GRAPHS

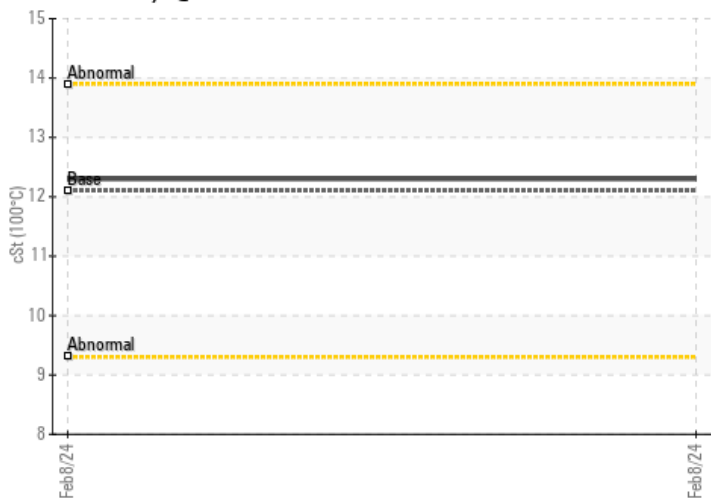
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

