

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LRB18 L1817 (S/N 111106) - Diesel Engine

Sample No: LH0273745

Oil Type: {unknown}



Sample Information

Sample Number	LH0273745	---	---	---
Sample Date	23 May 2024	---	---	---
Machine Hours	2969	---	---	---
Oil Hours	480	---	---	---
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	● 12.1	---	---	---
Base Number (BN)	mg KOH/g	● 6.2	---	---	---
Oxidation (PA)	%	57	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. 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 acceptable for the time in service.



Contamination

Water	%	NEG	---	---	---
Soot %	%	● 0.1	---	---	---
Nitration (PA)	%	76	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	● 1.0	---	---	---
Silicon	ppm	● <1	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 7	---	---	---



Wear Metals

Iron	ppm	● 4	---	---	---
Copper	ppm	● 2	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

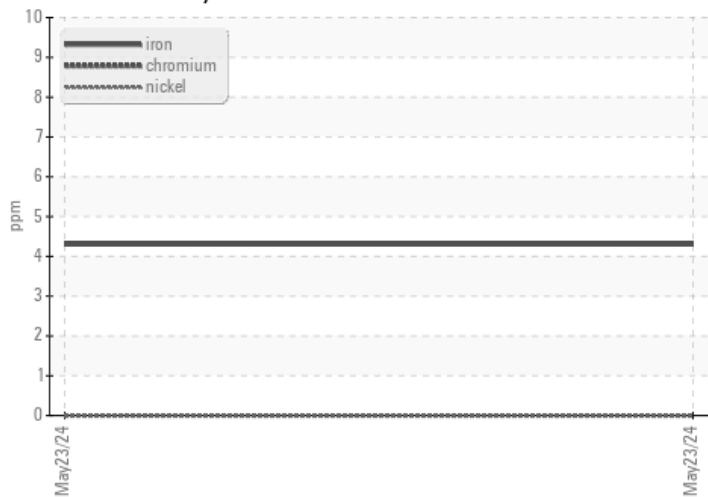
Calcium	ppm	● 1364	---	---	---
Magnesium	ppm	● 693	---	---	---
Zinc	ppm	● 810	---	---	---
Phosphorus	ppm	749	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 65	---	---	---

Depot: PETREILH
Unique No: 11060972
Signed: Sean Felton
Report Date: 06 Jun 2024

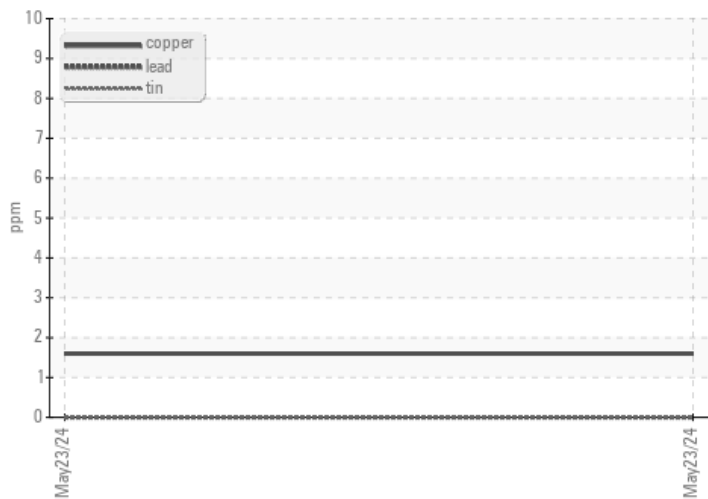


Graphs

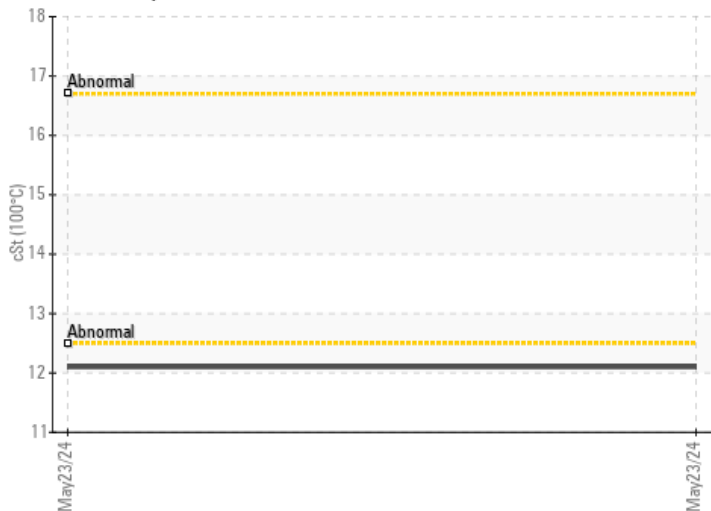
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

