

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LRB18 L1829 (S/N 111102) - Diesel Engine

Sample No: LH0247801

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH0247801	---	---	---
Sample Date	21 Oct 2023	---	---	---
Machine Hours	532	---	---	---
Oil Hours	532	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

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



OIL CONDITION

Visc @ 100°C	cSt	11.8	---	---	---
Base Number (BN)	mg KOH/g	3.7	---	---	---
Oxidation (PA)	%	205	---	---	---



CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	98	---	---	---
Sulfation (PA)	%	107	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.6	---	---	---
Silicon	ppm	13	---	---	---
Sodium	ppm	<1	---	---	---
Potassium	ppm	107	---	---	---



WEAR METALS

Iron	ppm	15	---	---	---
Copper	ppm	155	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	20	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	46	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1322	---	---	---
Magnesium	ppm	864	---	---	---
Zinc	ppm	838	---	---	---
Phosphorus	ppm	679	---	---	---
Barium	ppm	22	---	---	---
Boron	ppm	95	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. All other metal levels are typical for a new component breaking in. Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: PETREILH
 Unique No: 10716089
 Signed: Jonathan Hester
 Report Date: 02 Nov 2023

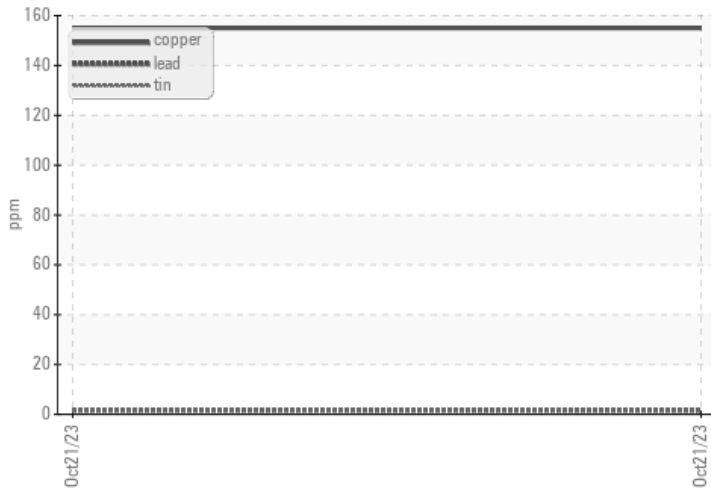


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

