

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 087885-1202 - Transmission (Manual)

Sample No: LH0258376

Oil Type: TDH FLUID SAE 75W80



HEAVY MACHINES INC
 7651 THEODORE DAWES RD
 THEODORE, AL
 US 36582
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 T: x:
 F: x:



Sample Information

Sample Number	LH0258376	---	---	---
Sample Date	28 Apr 2024	---	---	---
Machine Hours	15270	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 48.6	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 5	---	---	---
Sodium	ppm	● 20	---	---	---
Potassium	ppm	● 0	---	---	---



Wear Metals

Iron	ppm	● 149	---	---	---
Copper	ppm	● 293	---	---	---
Lead	ppm	● 3	---	---	---
Tin	ppm	● 6	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 14	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 15	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	● 2057	---	---	---
Magnesium	ppm	● 194	---	---	---
Zinc	ppm	● 863	---	---	---
Phosphorus	ppm	● 903	---	---	---
Barium	ppm	● 1	---	---	---
Boron	ppm	● 60	---	---	---

Diagnosis

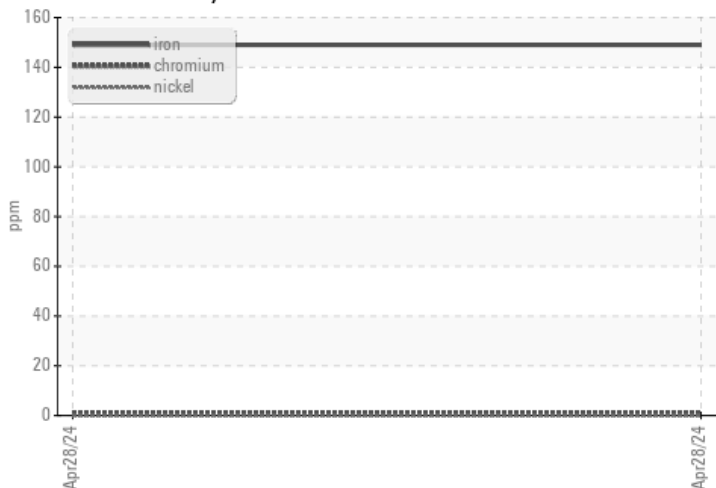
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: HEATHE
 Unique No: 11008455
 Signed: Jonathan Hester
 Report Date: 07 May 2024

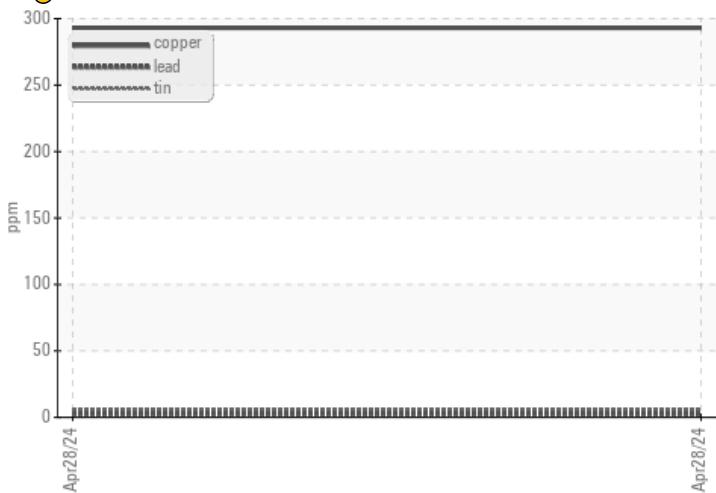


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

