

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 145953-1253 - Hydraulic System

Sample No: LH0254519

Oil Type: NOT GIVEN



HEAVY MACHINES INC
 825 31ST STREET NORTH
 BIRMINGHAM, AL
 US 35203
 Contact: CHRIS MCANNALLY
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 T:
 F:



SAMPLE INFORMATION

Sample Number	LH0254519	---	---	---
Sample Date	02 Oct 2023	---	---	---
Machine Hours	487	---	---	---
Oil Hours	487	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 45.4	---	---	---
Acid Number (AN)	mg KOH/g	● 1.20	---	---	---



CONTAMINATION

Particles >4µm		● 137093	---	---	---
Particles >6µm		● 46684	---	---	---
Particles >14µm		● 559	---	---	---
ISO 4406:1999 (c)		24/23/16	---	---	---
Silicon	ppm	● 4	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 0	---	---	---



WEAR METALS

Iron	ppm	● 17	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

Calcium	ppm	● 1311	---	---	---
Magnesium	ppm	● 6	---	---	---
Zinc	ppm	● 676	---	---	---
Phosphorus	ppm	● 591	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Diagnosis

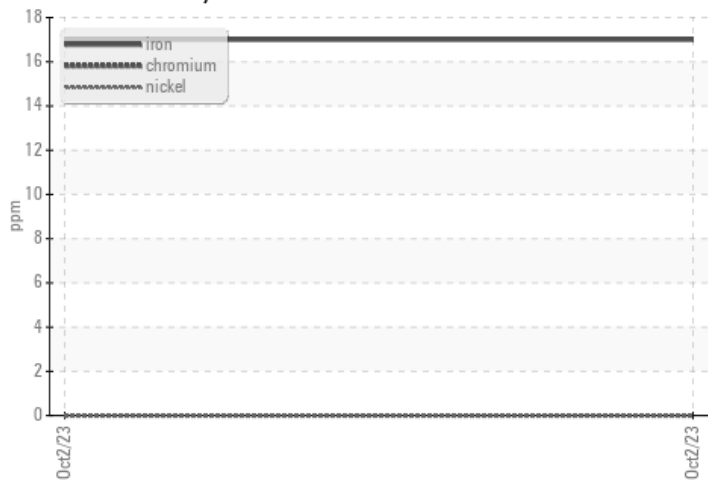
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: HEABIRLH
 Unique No: 10687606
 Signed: Wes Davis
 Report Date: 12 Oct 2023

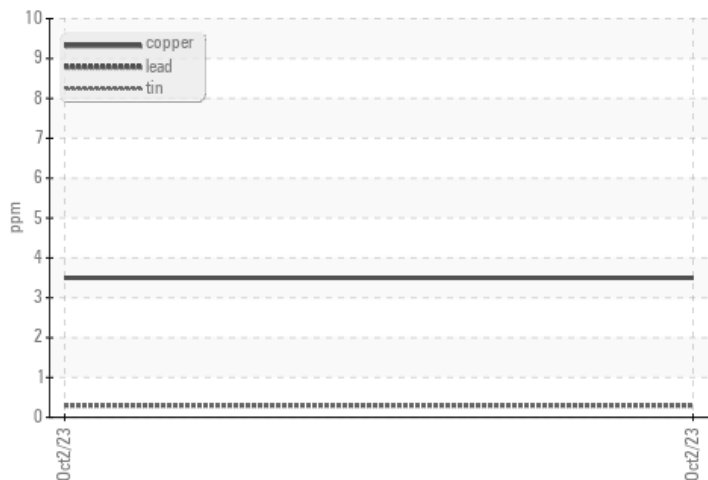


GRAPHS

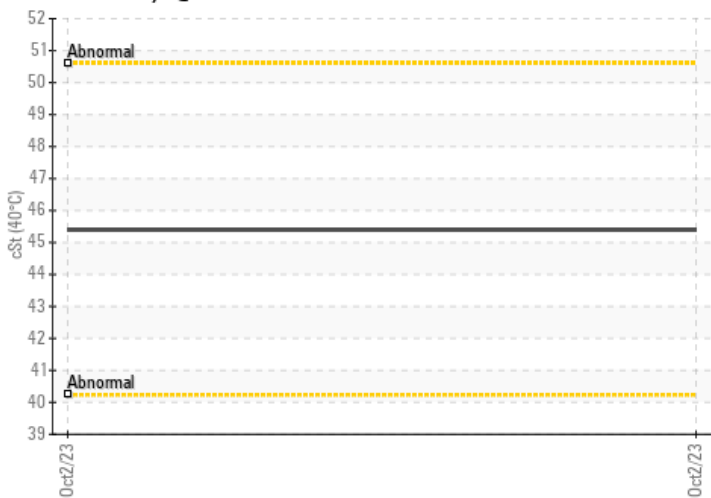
Ferrous Alloys



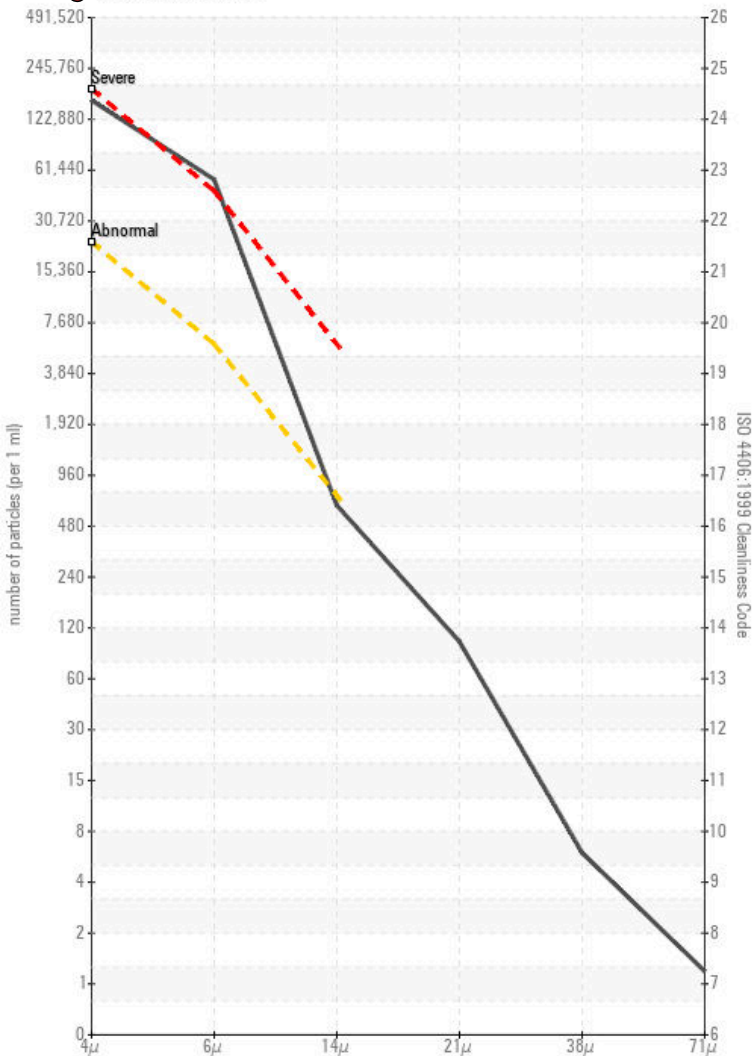
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

