

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R956 052034-1728 - Hydraulic System

Sample No: LHMC102017

Oil Type: NOT GIVEN



BRANDENBURG INDUSTRIAL
2625 S LOOMIS
CHICAGO, IL
US 60608
Contact: BOB JOYNT

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Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The iron level is abnormal. All other component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORMATION

Sample Number	LHMC102017	---	---	---
Sample Date	29 Mar 2023	---	---	---
Machine Hours	2319	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 47.6	---	---	---
Acid Number (AN)	mg KOH/g	● 0.64	---	---	---



CONTAMINATION

Particles >4µm		● 30527	---	---	---
Particles >6µm		● 5762	---	---	---
Particles >14µm		● 483	---	---	---
ISO 4406:1999 (c)		22/20/16	---	---	---
Silicon	ppm	● 9	---	---	---
Sodium	ppm	● 19	---	---	---
Potassium	ppm	● 7	---	---	---



WEAR METALS

Iron	ppm	● 51	---	---	---
Copper	ppm	● 14	---	---	---
Lead	ppm	● 6	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 0	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	● <1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 4	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

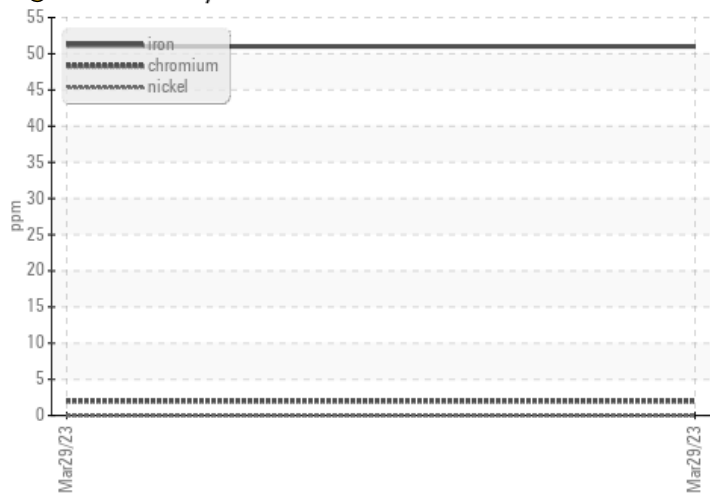
Calcium	ppm	● 645	---	---	---
Magnesium	ppm	● 11	---	---	---
Zinc	ppm	● 468	---	---	---
Phosphorus	ppm	● 760	---	---	---
Barium	ppm	● 5	---	---	---
Boron	ppm	● 0	---	---	---

Depot: BRACHI
Unique No: 10523839
Signed: Jonathan Hester
Report Date: 28 Jun 2023

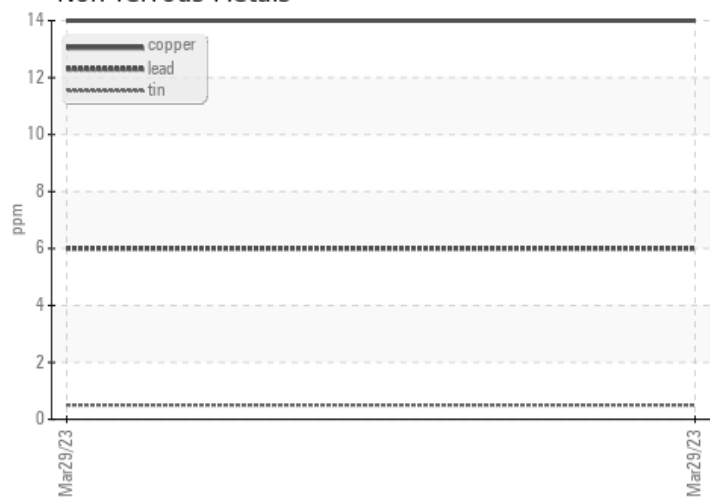


GRAPHS

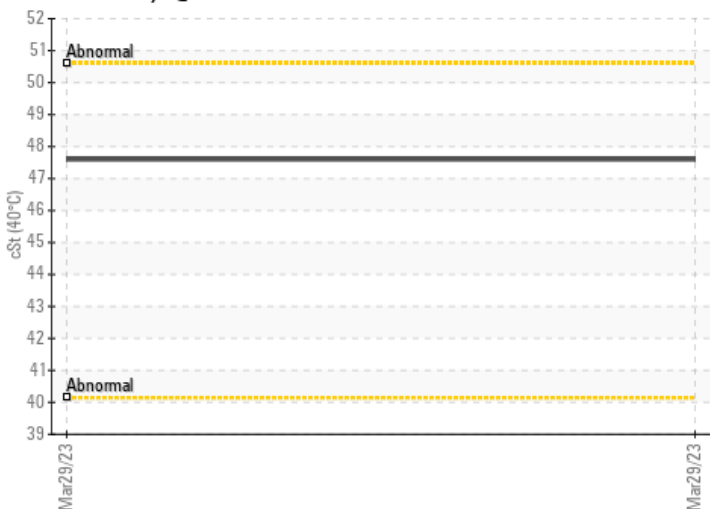
● Ferrous Alloys



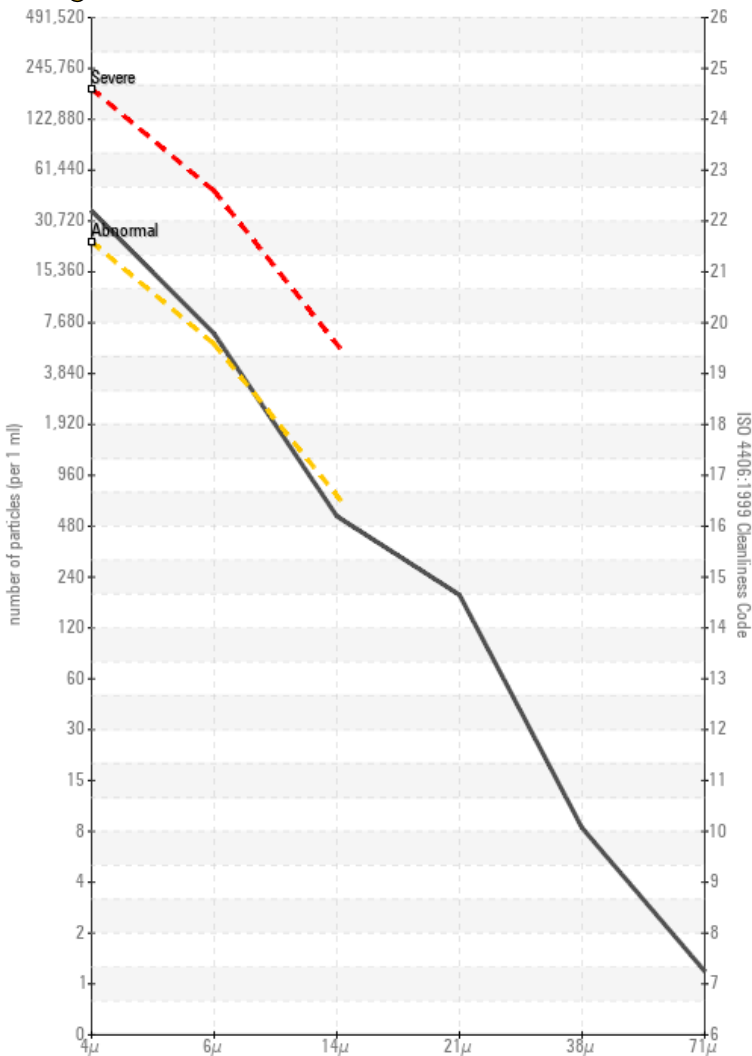
Non-ferrous Metals



Viscosity @ 40°C



● Particle Count



Acid Number

