

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R956 052331-17 28 - Hydraulic System

Sample No: LHMC102014

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LHMC102014	LH0236093	---	---
Sample Date	21 Apr 2023	07 Oct 2022	---	---
Machine Hours	616	458	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	● 48.8	● 41.6	---	---
Acid Number (AN)	mg KOH/g	● 0.59	● 1.12	---	---



CONTAMINATION

Particles >4µm		● 10551	● 1233	---	---
Particles >6µm		● 602	● 335	---	---
Particles >14µm		● 28	● 31	---	---
ISO 4406:1999 (c)		21/16/12	17/16/12	---	---
Silicon	ppm	● 4	● 10	---	---
Sodium	ppm	● 1	● 1	---	---
Potassium	ppm	● <1	● 2	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	● 12	● 17	---	---
Copper	ppm	● 8	● 2	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 0	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	1	0	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

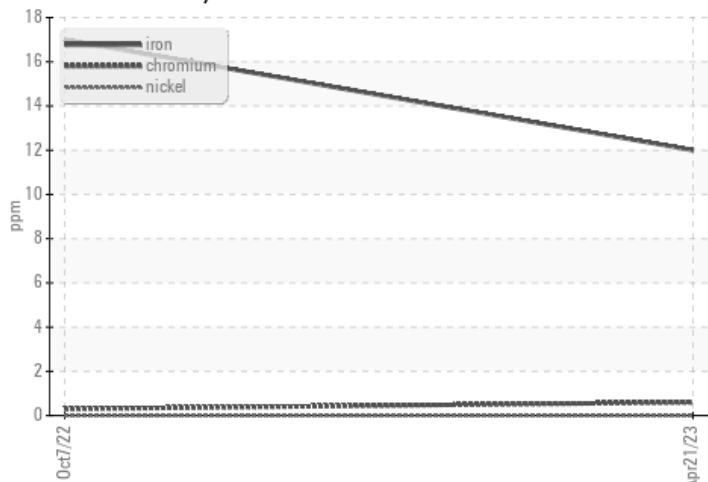
Calcium	ppm	598	1324	---	---
Magnesium	ppm	3	4	---	---
Zinc	ppm	542	744	---	---
Phosphorus	ppm	421	610	---	---
Barium	ppm	0	1	---	---
Boron	ppm	0	<1	---	---

Depot: LEC007
 Unique No: 1053555
 Signed: Don Baldrige
 Report Date: 30 Jun 2023

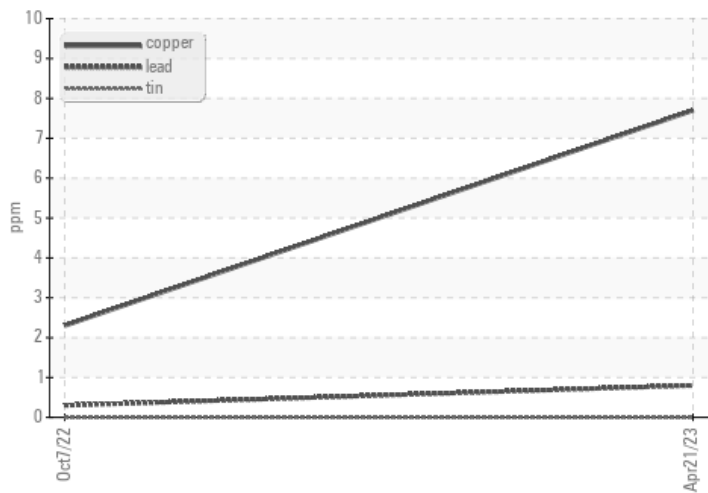


GRAPHS

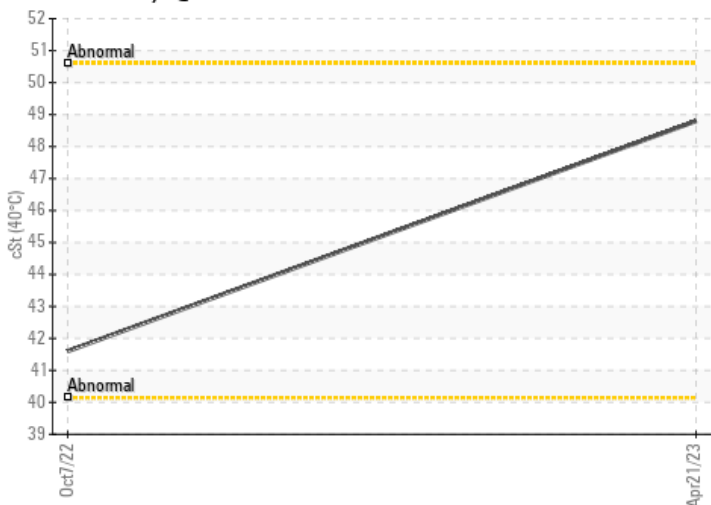
Ferrous Alloys



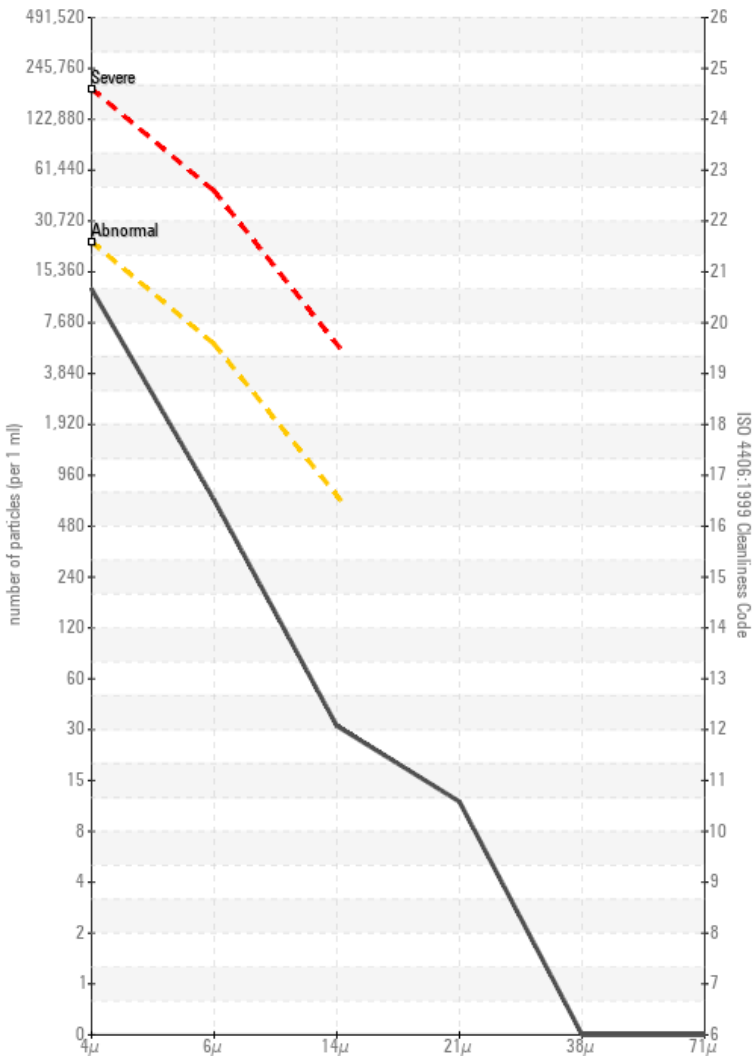
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

