

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH22M 081593-1197 - Hydraulic System

Sample No: LH0243840

Oil Type: LIEBHERR



BAY DISPOSAL
 2224 SPRINGFIELD AVE
 NORFOLK, VA
 US 23523
 Contact: SERVICE MANAGER



SAMPLE INFORMATION

Sample Number	LH0243840	LH0243914	---	---
Sample Date	03 Jun 2023	21 Jan 2023	---	---
Machine Hours	14541	13475	---	---
Oil Hours	2000	1000	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	60.6	60.8	---	---
Acid Number (AN)	mg KOH/g	0.44	0.45	---	---



CONTAMINATION

Particles >4µm		1607	1558	---	---
Particles >6µm		436	457	---	---
Particles >14µm		22	32	---	---
ISO 4406:1999 (c)		18/16/12	18/16/12	---	---
Silicon	ppm	3	2	---	---
Sodium	ppm	1	0	---	---
Potassium	ppm	<1	1	---	---



WEAR METALS

Iron	ppm	53	52	---	---
Copper	ppm	8	7	---	---
Lead	ppm	2	1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	6	6	---	---
Molybdenum	ppm	<1	0	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	237	225	---	---
Magnesium	ppm	3	4	---	---
Zinc	ppm	438	429	---	---
Phosphorus	ppm	330	327	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

T:
F:

Diagnosis

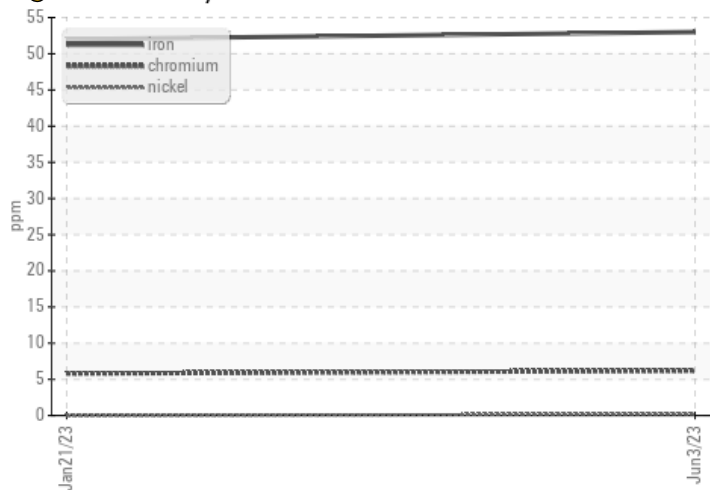
No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The chromium level is abnormal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: BAYNOR
 Unique No: 10548665
 Signed: Doug Bogart
 Report Date: 10 Jul 2023

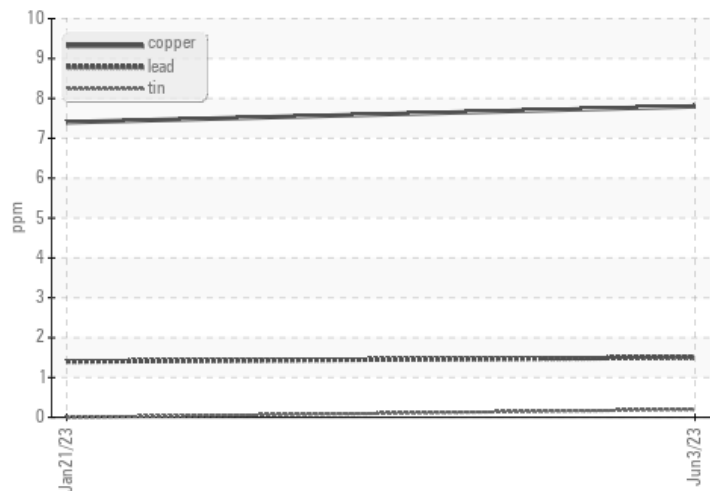


GRAPHS

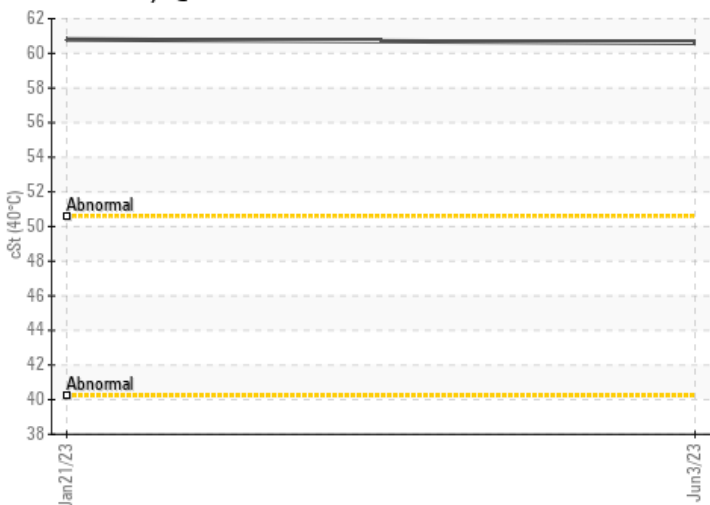
● Ferrous Alloys



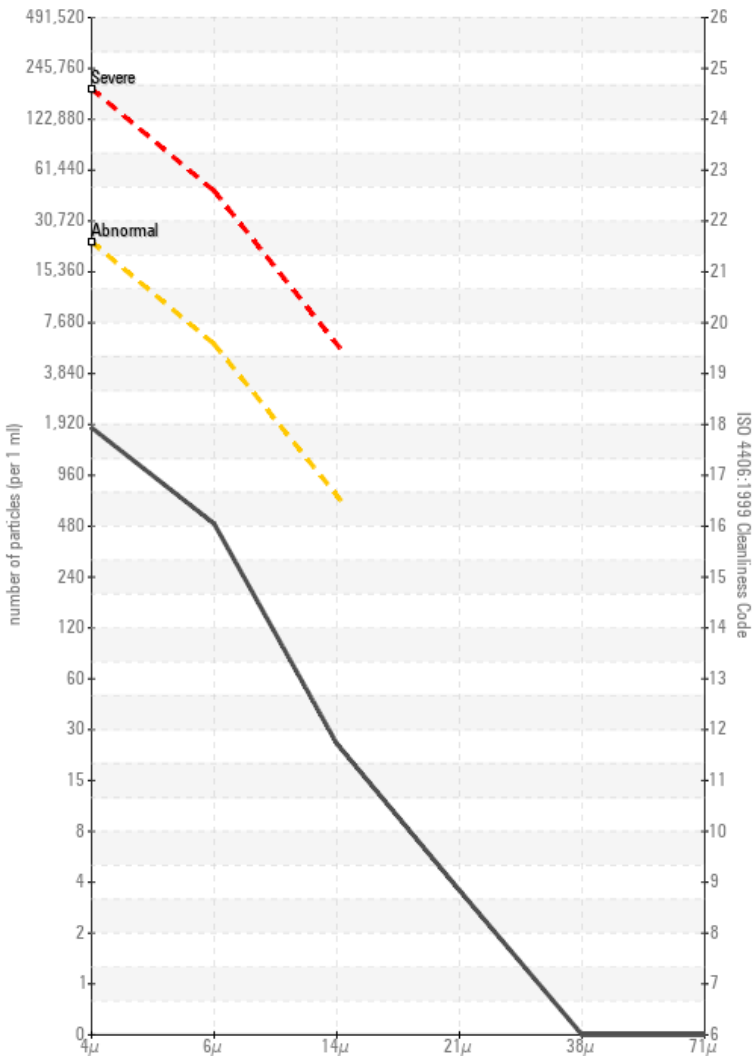
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

