

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-109092 - Hydraulic System

Sample No: LH0254668

Oil Type: MOBIL DTE 10



AHLSTROM-MUNKSJO NA SPECIALTY
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 KAUKAUNA, WI
 US 54130
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Sample Information

Sample Number	LH0254668	LHMC149672	LHMC149583	---
Sample Date	15 May 2024	13 Apr 2023	11 Oct 2022	---
Machine Hours	16447	14565	12880	---
Oil Hours	0	522	12880	---
Oil Changed	Not Chngd	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---



Oil Condition

Visc @ 40°C	cSt	44.0	43.6	43.8	---
Acid Number (AN)	mg KOH/g	0.276	0.11	0.27	---



Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		1441	3208	1396	---
Particles >6µm		382	1168	234	---
Particles >14µm		25	121	20	---
ISO 4406:1999 (c)		18/16/12	19/17/14	18/15/11	---
Silicon	ppm	1	<1	<1	---
Sodium	ppm	2	2	1	---
Potassium	ppm	2	<1	0	---



Wear Metals

Iron	ppm	29	29	20	---
Copper	ppm	3	2	2	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	<1	0	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	230	335	358	---
Magnesium	ppm	2	4	2	---
Zinc	ppm	82	144	128	---
Phosphorus	ppm	297	424	425	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	<1	---

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.

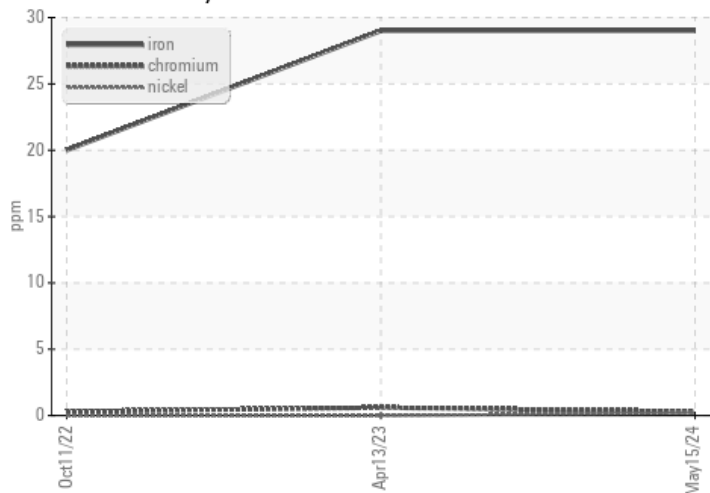
Depot: AHLKAU
 Unique No: 11036256
 Signed: Don Baldrige
 Report Date: 22 May 2024

Contact/Location: JOE SEITZ - AHLKAU

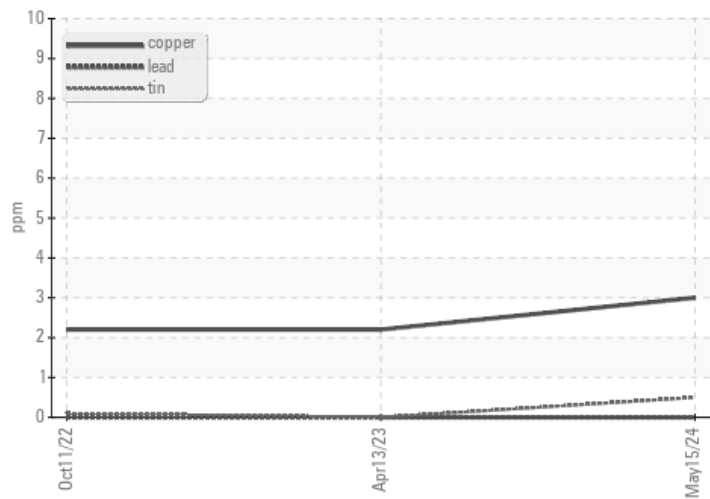


Graphs

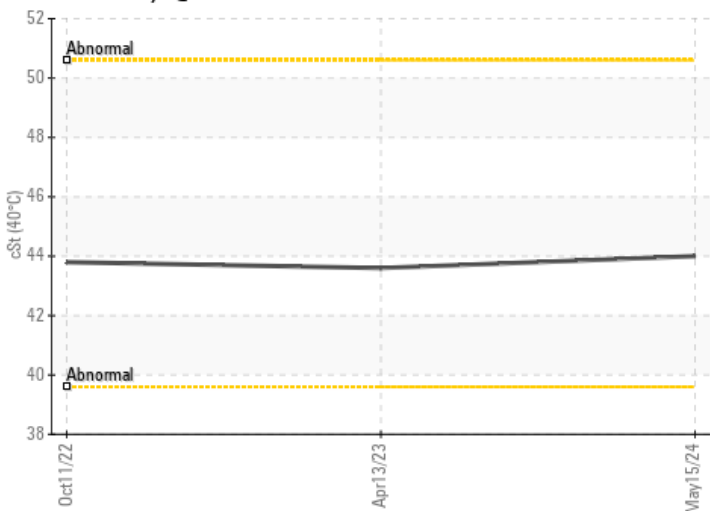
Ferrous Alloys



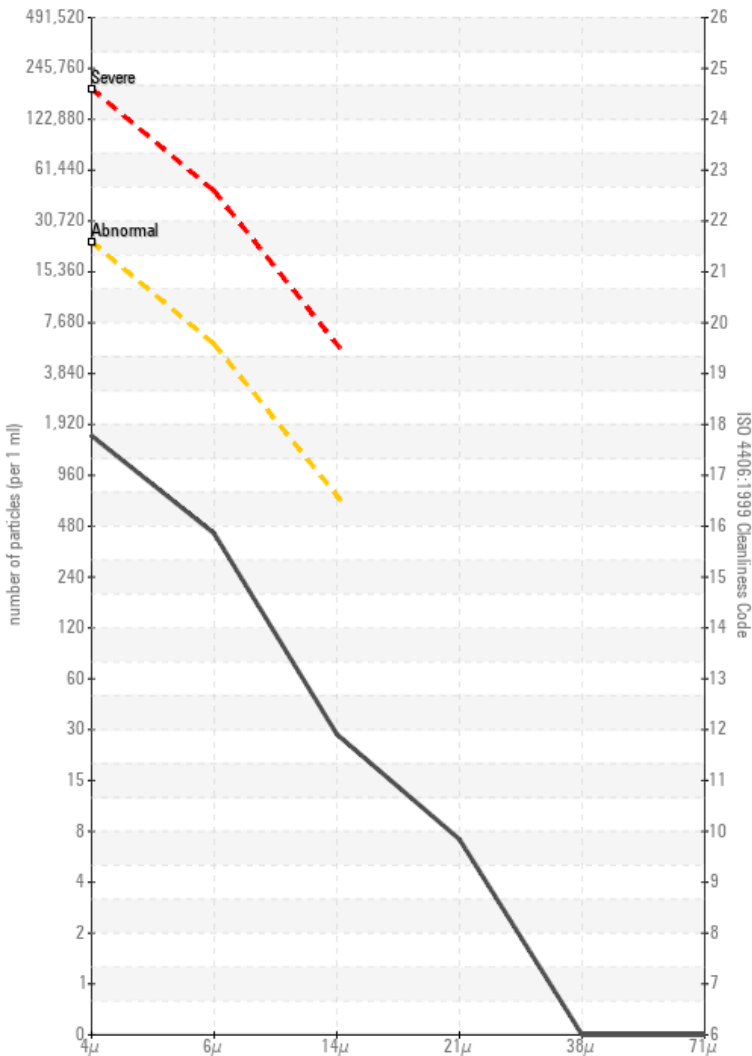
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

