

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-110224 - Hydraulic System

Sample No: LHMC163740

Oil Type: MOBIL DTE 10



AHLSTROM-MUNKSJO NA SPECIALTY
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SAMPLE INFORMATION

Sample Number	LHMC163740	LHMC162785	LHMC163738	---
Sample Date	02 Feb 2024	20 Jul 2023	02 Nov 2022	---
Machine Hours	9264	8255	7069	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	45.5	45.5	44.8	---
Acid Number (AN)	mg KOH/g	0.22	0.08	0.21	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		3990	1628	2639	---
Particles >6µm		405	359	369	---
Particles >14µm		40	44	30	---
ISO 4406:1999 (c)		19/16/12	18/16/13	19/16/12	---
Silicon	ppm	<1	0	<1	---
Sodium	ppm	<1	<1	0	---
Potassium	ppm	0	0	<1	---



WEAR METALS

Iron	ppm	9	5	9	---
Copper	ppm	2	1	<1	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	0	0	0	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	76	86	74	---
Magnesium	ppm	0	0	<1	---
Zinc	ppm	4	21	107	---
Phosphorus	ppm	149	199	319	---
Barium	ppm	0	0	0	---
Boron	ppm	0	1	0	---

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.

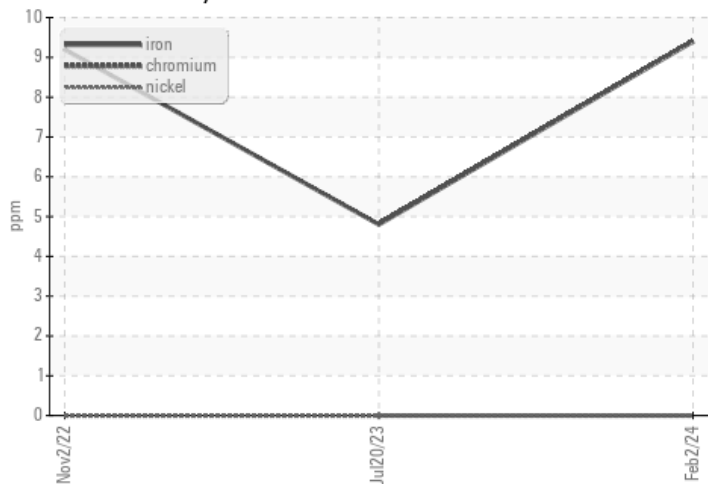
Depot: AHLKAU
 Unique No: 10883801
 Signed: Don Baldrige
 Report Date: 17 Feb 2024

Contact/Location: JOE SEITZ - AHLKAU

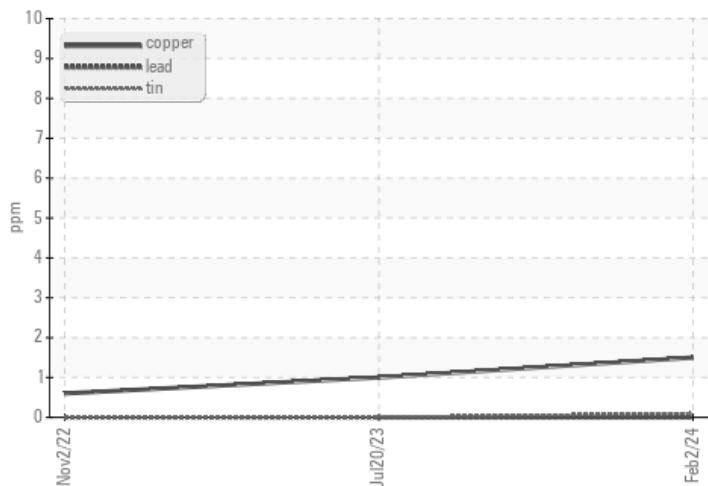


GRAPHS

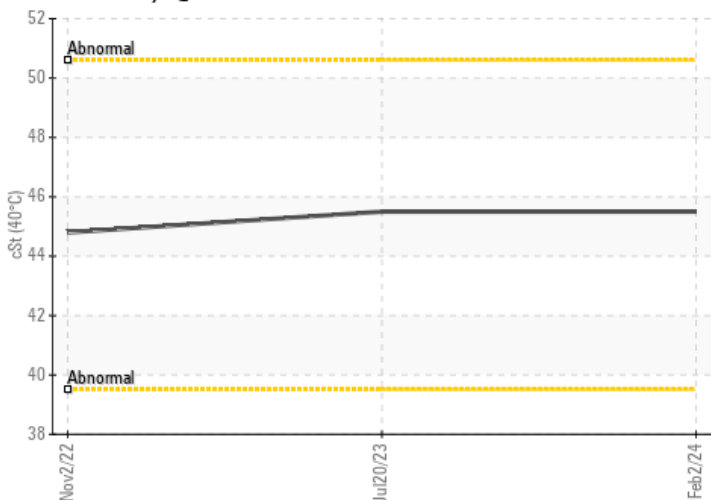
Ferrous Alloys



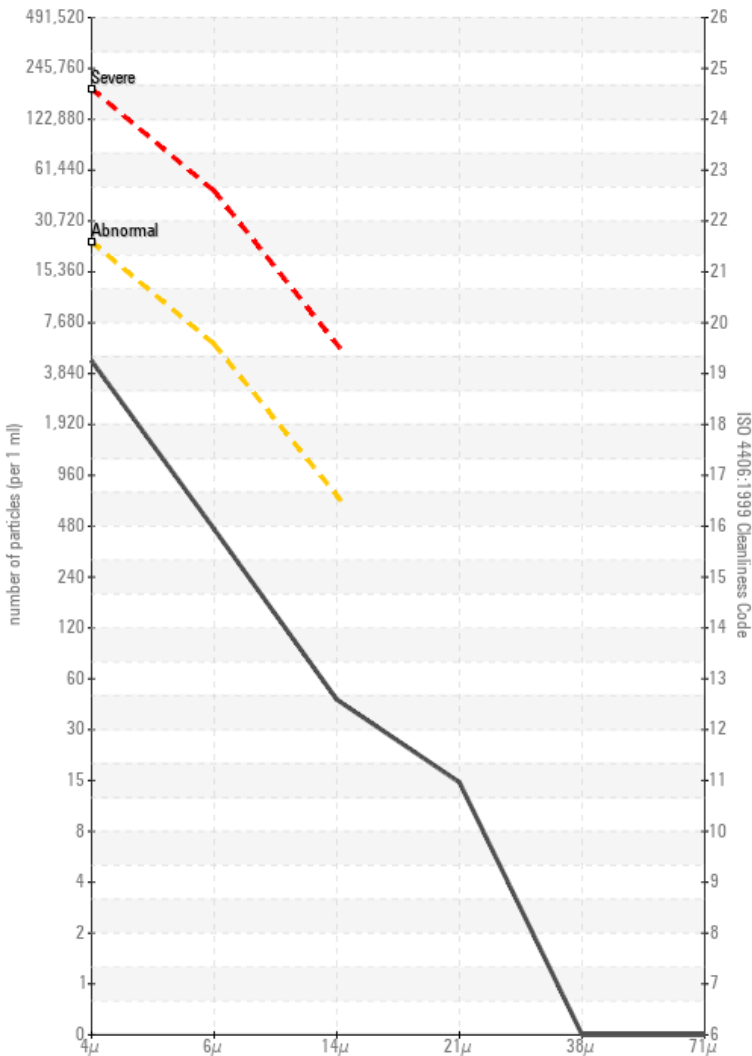
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

