

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 137 053-1215 - Hydraulic System

Sample No: LHMC99395

Oil Type: LIEBHERR HYDRAULIC HVI



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SAMPLE INFORMATION

Sample Number	LHMC99395	LHMC80320	---	---
Sample Date	07 Jun 2023	11 Apr 2023	---	---
Machine Hours	1583	1079	---	---
Oil Hours	1583	1079	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 45.1	● 45.4	---	---
Acid Number (AN)	mg KOH/g	● 1.17	● 1.34	---	---



CONTAMINATION

Particles >4µm		● 5424	● 16415	---	---
Particles >6µm		● 1323	● 3410	---	---
Particles >14µm		● 79	● 72	---	---
ISO 4406:1999 (c)		20/18/13	21/19/13	---	---
Silicon	ppm	● 2	● 1	---	---
Sodium	ppm	● 2	● 1	---	---
Potassium	ppm	● <1	● 0	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	● 1419	● 1429	---	---
Magnesium	ppm	● 3	● 4	---	---
Zinc	ppm	● 765	● 732	---	---
Phosphorus	ppm	● 676	● 627	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 0	● 0	---	---

Diagnosis

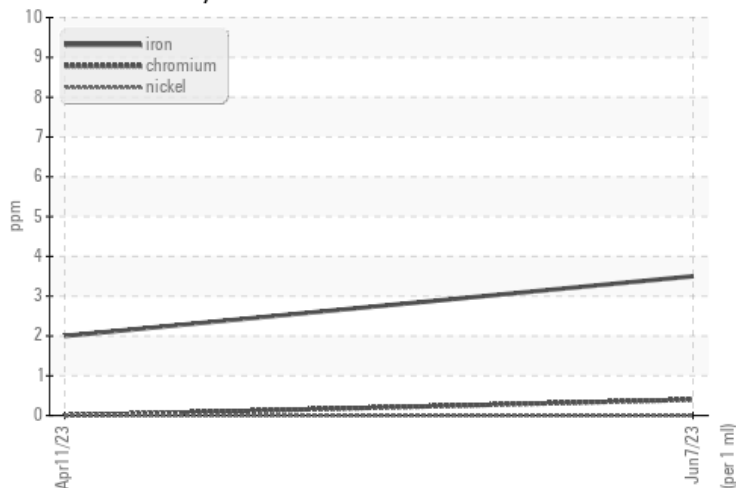
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: LEC0070
 Unique No: 10540141
 Signed: Wes Davis
 Report Date: 05 Jul 2023

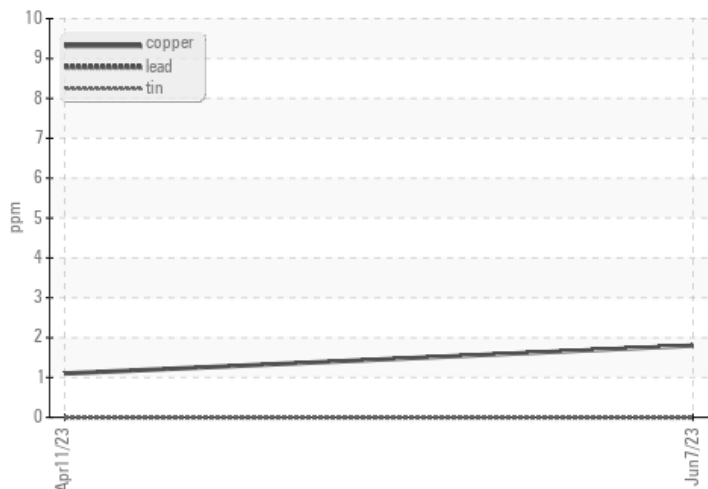


GRAPHS

Ferrous Alloys



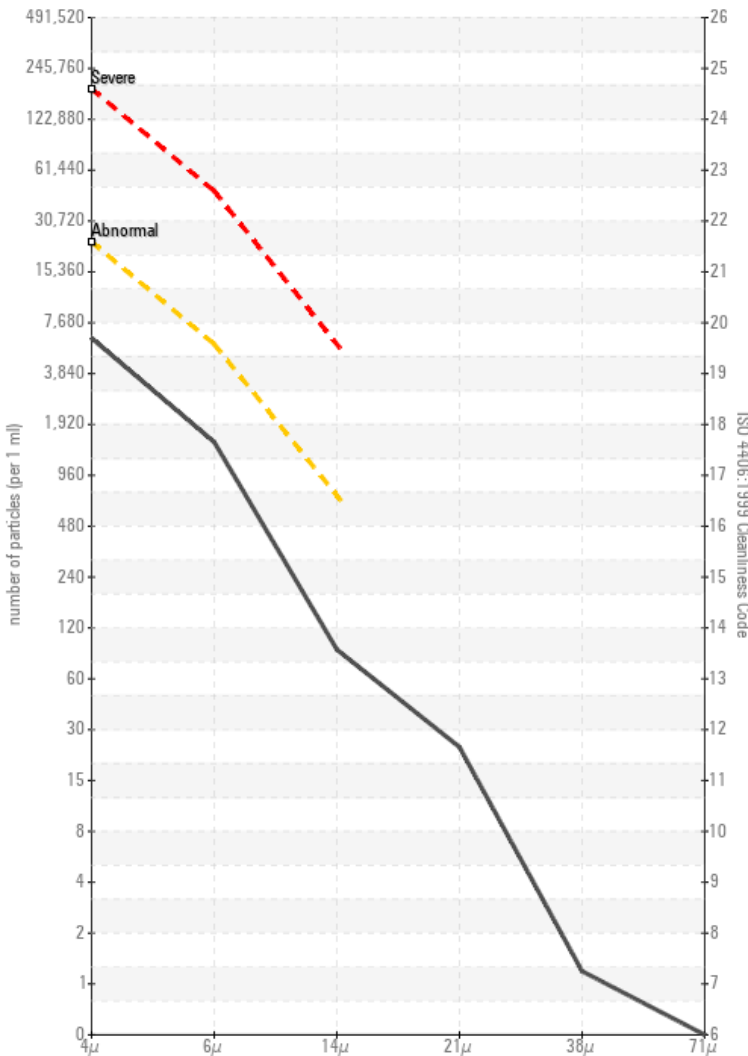
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

