

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R922 056517-1486 - Hydraulic System

Sample No: LH0229679

Oil Type: LIEBHERR HYDRAULIC HVI



M&F CONCRETE PRODUCTS CO
 4002 CATLETT RD
 CATLETT, VA
 US 20119
 Contact: Service Manager

T:
 F:



Sample Information

Sample Number	LH0229679	---	---	---
Sample Date	30 Mar 2024	---	---	---
Machine Hours	2025	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 42.9	---	---	---
Acid Number (AN)	mg KOH/g	● 1.10	---	---	---



Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 9535	---	---	---
Particles >6µm		● 361	---	---	---
Particles >14µm		● 6	---	---	---
ISO 4406:1999 (c)		20/16/10	---	---	---
Silicon	ppm	● 8	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 2	---	---	---

Diagnosis

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



Wear Metals

Iron	ppm	● 13	---	---	---
Copper	ppm	● 39	---	---	---
Lead	ppm	● 4	---	---	---
Tin	ppm	● 3	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 7	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

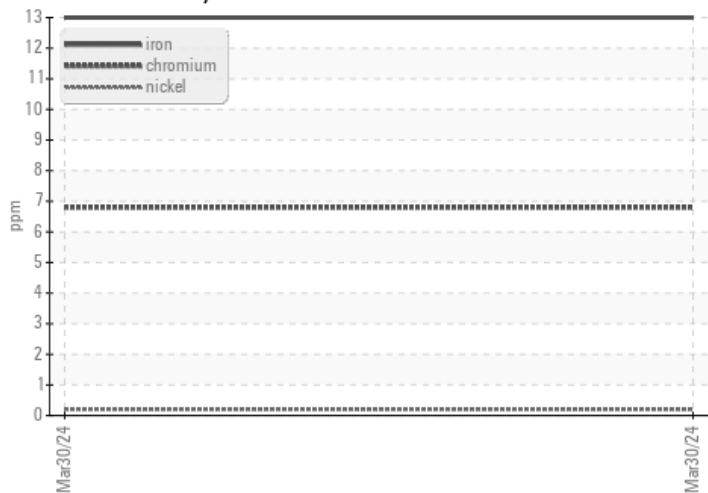
Calcium	ppm	● 1321	---	---	---
Magnesium	ppm	● 7	---	---	---
Zinc	ppm	● 687	---	---	---
Phosphorus	ppm	● 603	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 0	---	---	---

Depot: MECCAT
Unique No: 11002634
Signed: Jonathan Hester
Report Date: 02 May 2024

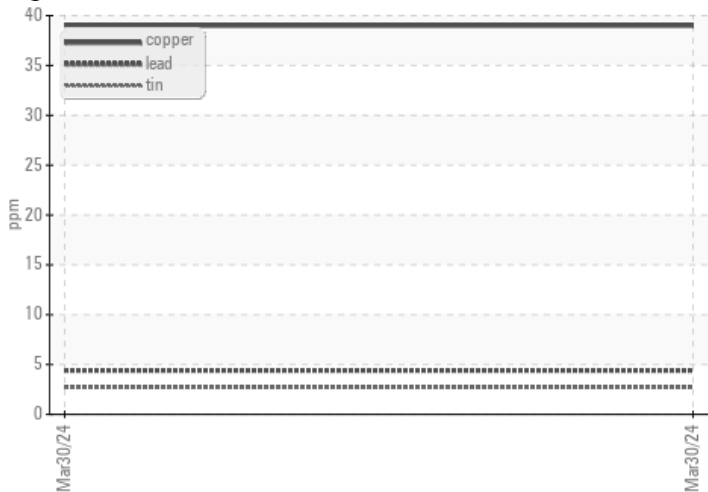


Graphs

Ferrous Alloys



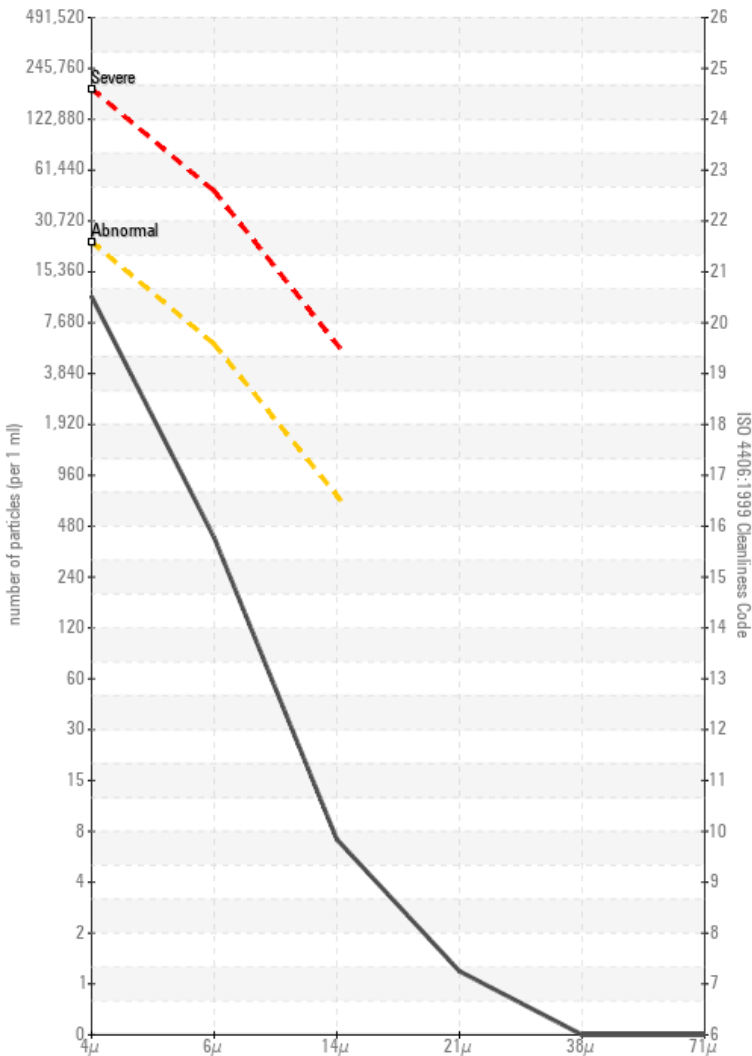
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

