

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 119208-1217 - Hydraulic System

Sample No: LH0257451

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0257451	LH0200263	---	---
Sample Date	05 Jul 2023	30 Nov 2022	---	---
Machine Hours	3275	1762	---	---
Oil Hours	3000	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.6	● 44.6	---	---
Acid Number (AN)	mg KOH/g	● 1.00	● 1.063	---	---



CONTAMINATION

Particles >4µm		● 939	● 468	---	---
Particles >6µm		● 270	● 144	---	---
Particles >14µm		● 36	● 11	---	---
ISO 4406:1999 (c)		17/15/12	16/14/11	---	---
Silicon	ppm	● 2	● 2	---	---
Sodium	ppm	● 0	● 2	---	---
Potassium	ppm	● 2	● 0	---	---



WEAR METALS

Iron	ppm	● 71	● 22	---	---
Copper	ppm	● 12	● 4	---	---
Lead	ppm	● 2	● <1	---	---
Tin	ppm	● <1	● 0	---	---
Aluminum	ppm	● 1	● <1	---	---
Chromium	ppm	● 3	● <1	---	---
Molybdenum	ppm	● <1	● <1	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 1	● <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	577	● 1042	---	---
Magnesium	ppm	● 3	● 6	---	---
Zinc	ppm	● 596	● 559	---	---
Phosphorus	ppm	● 468	● 475	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 0	● <1	---	---

TT & E IRON

1529 WEST GARNER RD
 GARNER, NC
 US 27529
 Contact: MICHAEL STANCIL
 culaterprowler@aol.com
 T: (919)524-4326
 F:

Diagnosis

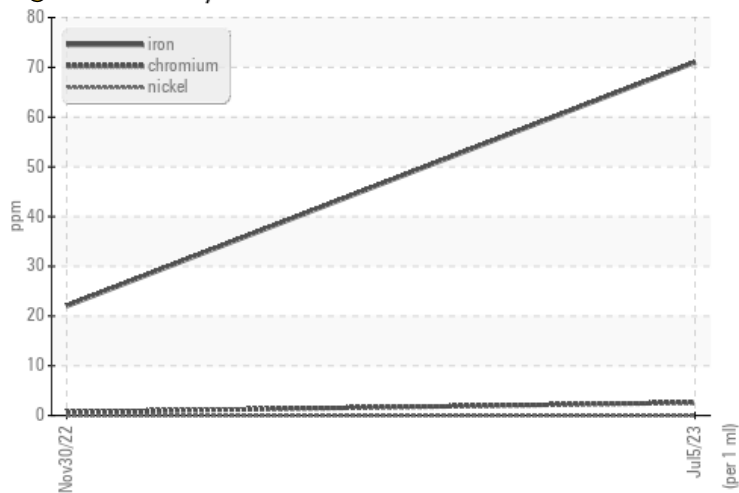
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Depot: TTENEW
 Unique No: 10550762
 Signed: Angela Borella
 Report Date: 12 Jul 2023

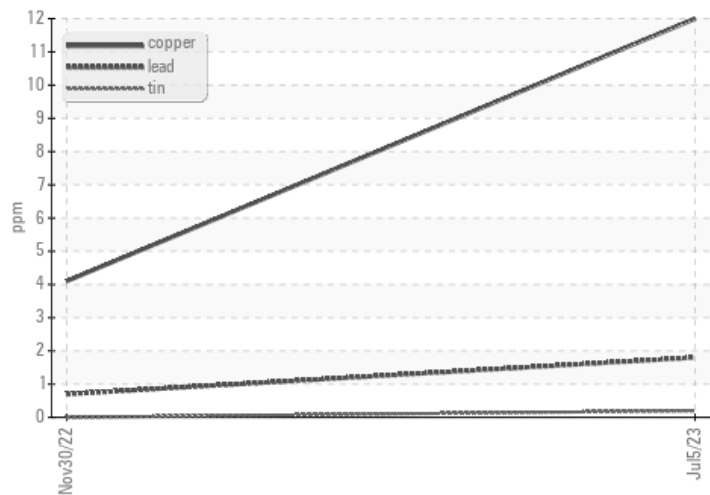


GRAPHS

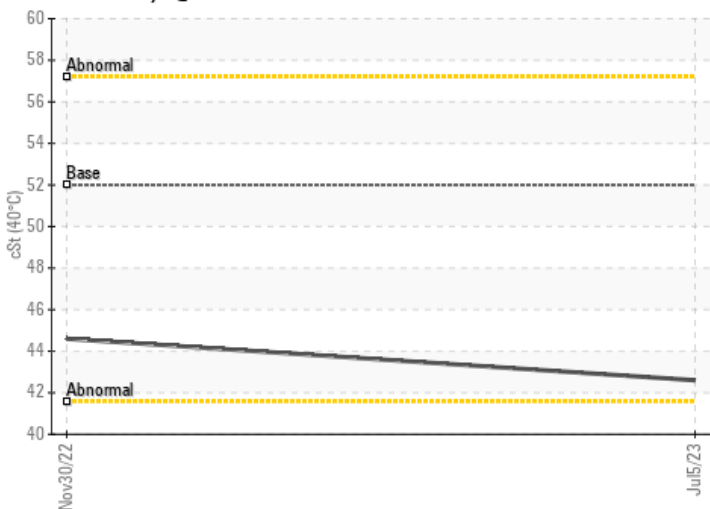
● Ferrous Alloys



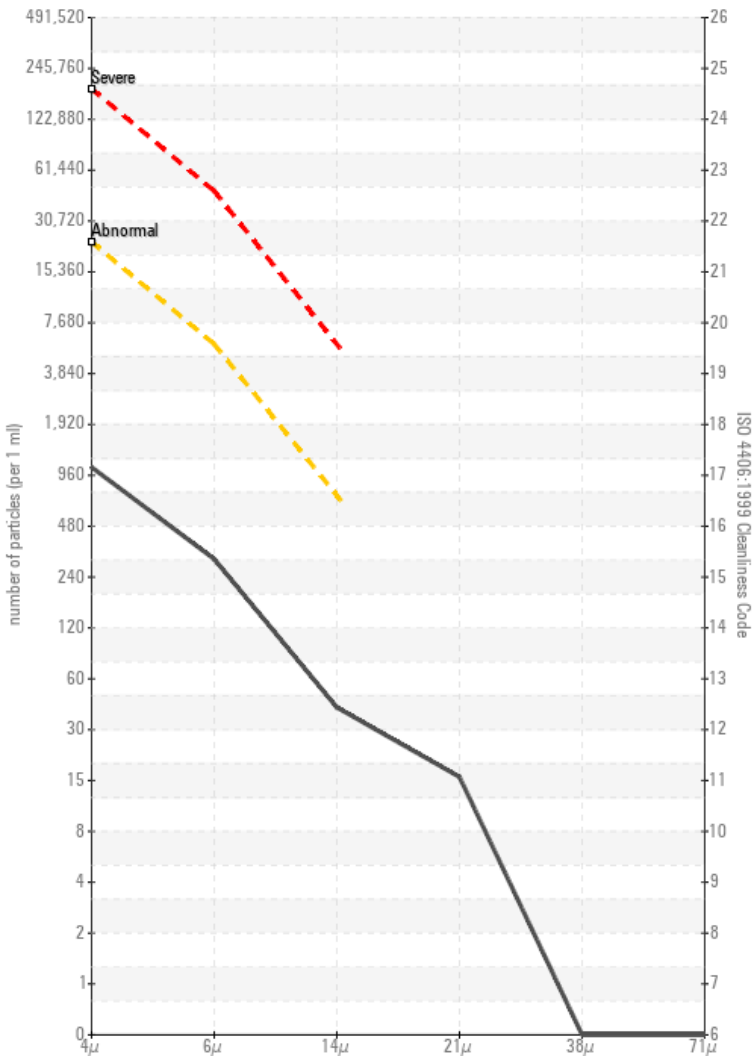
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

