

LIEBHERR

CONSTRUCTION EQUIPMENT



[[MCDONAGH]] LIEBHERR R956 056876-1728 - Hydraulic Sys

Sample No: LH0258905

Oil Type: LIEBHERR HYDRAULIC HVI



FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
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 US 60527
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SAMPLE INFORMATION

Sample Number	LH0258905	LH0267664	---	---
Sample Date	12 Feb 2024	28 Oct 2023	---	---
Machine Hours	1075	552	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 39.3	● 40.4	---	---
Acid Number (AN)	mg KOH/g	● 0.98	● 0.88	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		● 631	---	---	---
Particles >6µm		● 138	---	---	---
Particles >14µm		● 16	---	---	---
ISO 4406:1999 (c)		16/14/11	---	---	---
Silicon	ppm	● 4	● 6	---	---
Sodium	ppm	● 0	● 2	---	---
Potassium	ppm	● 2	● 0	---	---



WEAR METALS

Iron	ppm	● 84	● 55	---	---
Copper	ppm	● 7	● 5	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● <1	---	---
Aluminum	ppm	● 2	● <1	---	---
Chromium	ppm	● <1	● 2	---	---
Molybdenum	ppm	● 0	0	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	● 1035	1114	---	---
Magnesium	ppm	● 6	0	---	---
Zinc	ppm	● 607	616	---	---
Phosphorus	ppm	● 543	534	---	---
Barium	ppm	● 8	0	---	---
Boron	ppm	● 0	0	---	---

Diagnosis

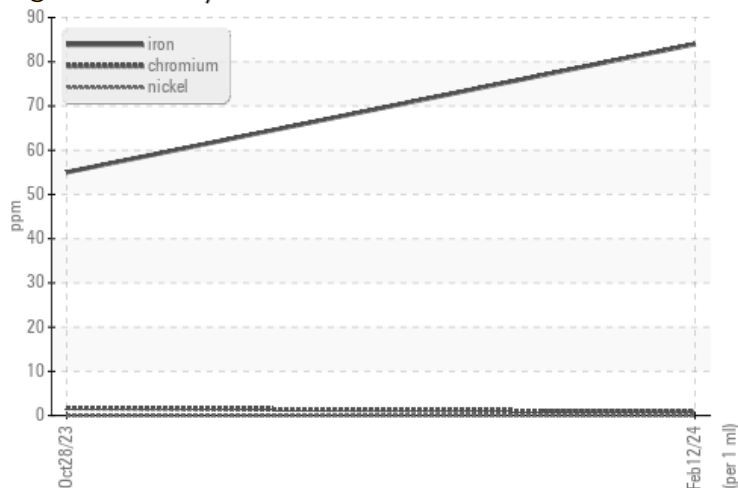
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication 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: LEC0033
 Unique No: 10899110
 Signed: Don Baldrige
 Report Date: 28 Feb 2024

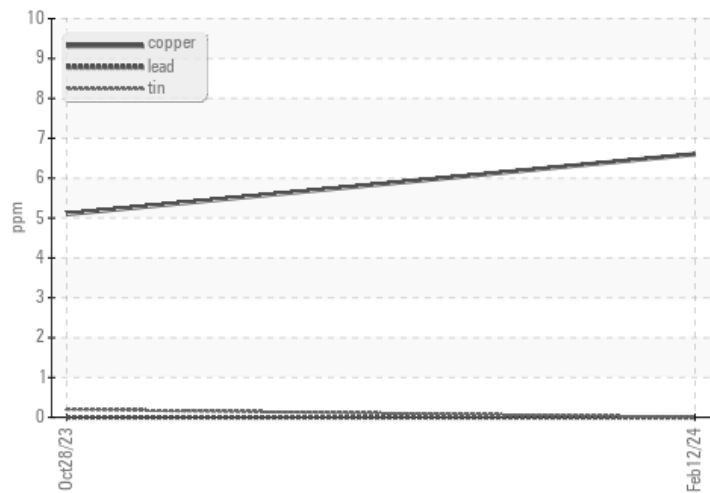


GRAPHS

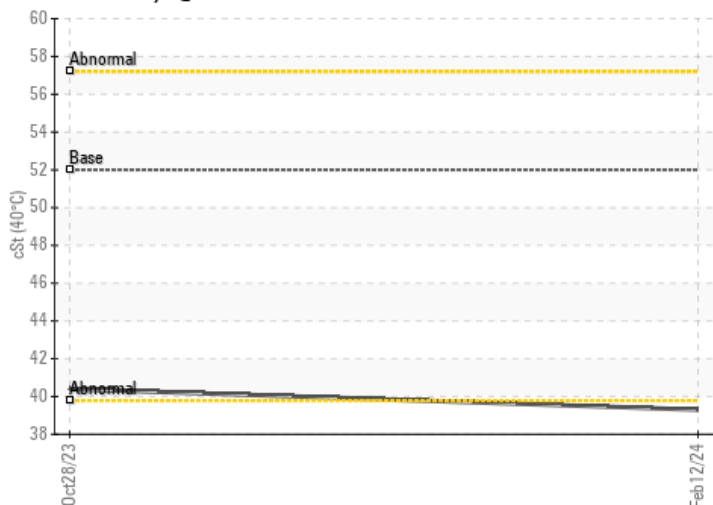
● Ferrous Alloys



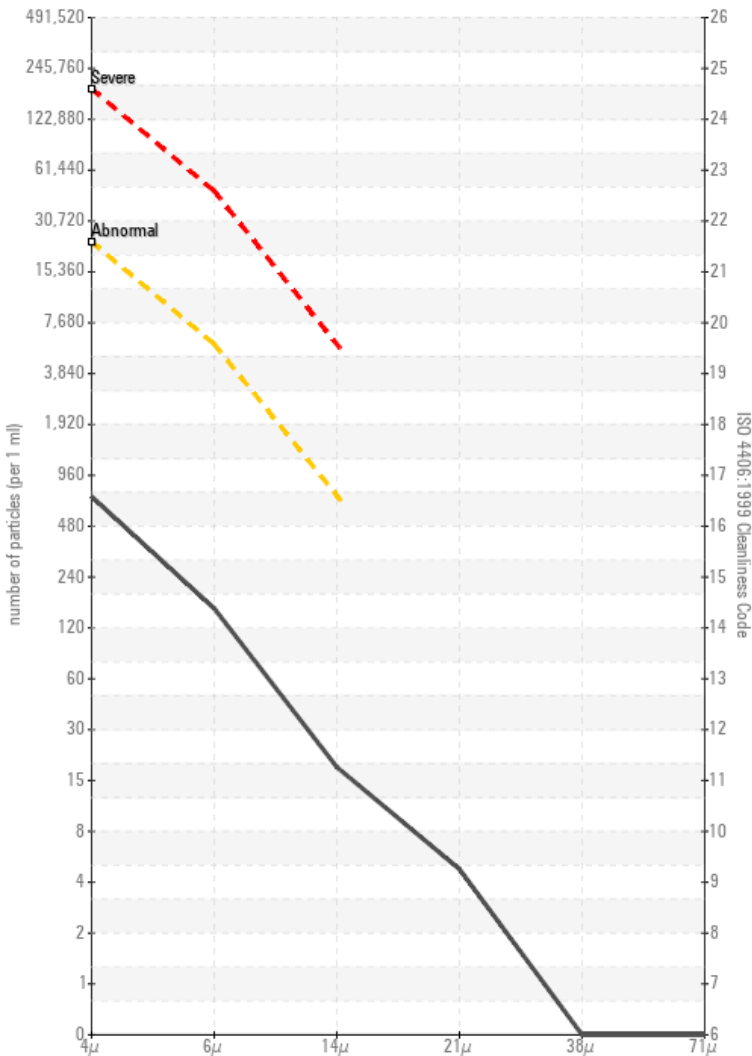
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

