

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 050779-1214 - Hydraulic System

Sample No: LH0243140

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0243140	LH0190883	---	---
Sample Date	07 Dec 2023	18 Jan 2023	---	---
Machine Hours	2060	1098	---	---
Oil Hours	2060	1098	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

TIMBER PRODUCTS

11256 E STATE HWY M28
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US 49862
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T: (906)452-7013
F:



OIL CONDITION

Visc @ 40°C	cSt	57.7	63.5	---	---
Acid Number (AN)	mg KOH/g	0.69	0.64	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		20538	46272	---	---
Particles >6µm		461	4409	---	---
Particles >14µm		24	26	---	---
ISO 4406:1999 (c)		22/16/12	23/19/12	---	---
Silicon	ppm	2	2	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	0	<1	---	---

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	8	6	---	---
Copper	ppm	4	3	---	---
Lead	ppm	6	7	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	2	1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

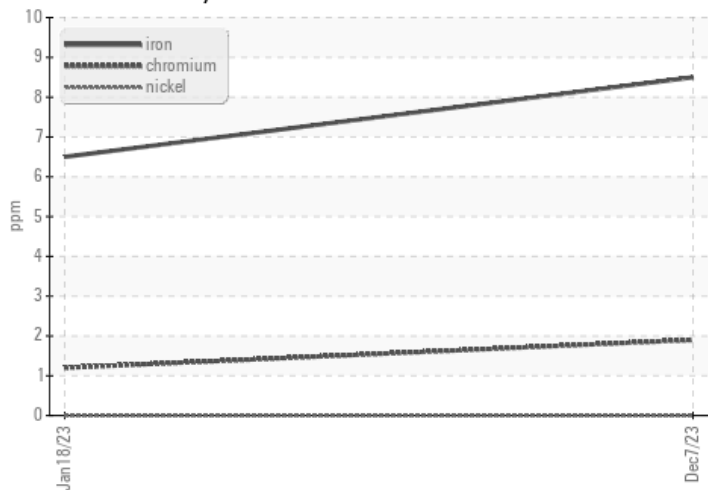
Calcium	ppm	1149	1172	---	---
Magnesium	ppm	4	7	---	---
Zinc	ppm	298	390	---	---
Phosphorus	ppm	308	326	---	---
Barium	ppm	0	0	---	---
Boron	ppm	3	0	---	---

Depot: TIMMUN
Unique No: 10896931
Signed: Jonathan Hester
Report Date: 29 Feb 2024

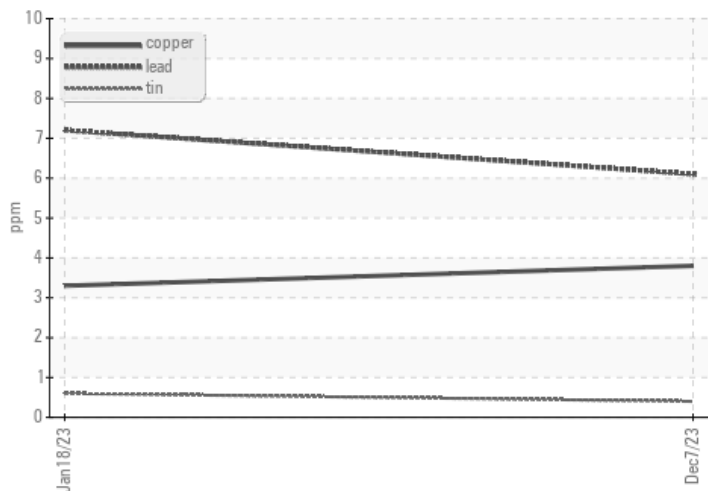


GRAPHS

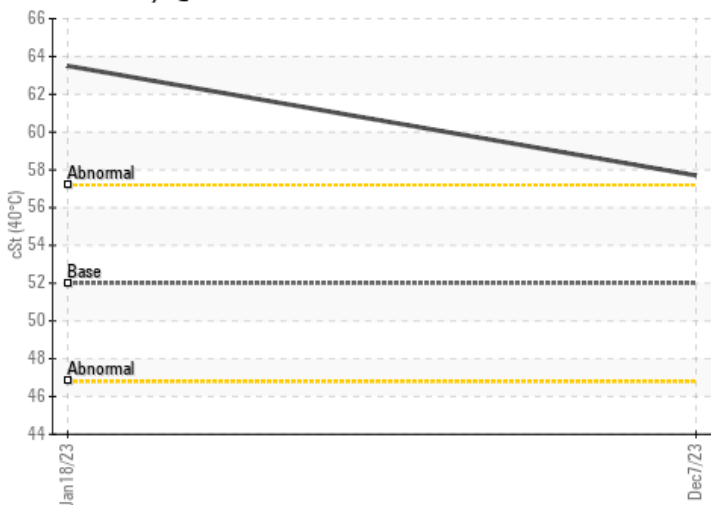
Ferrous Alloys



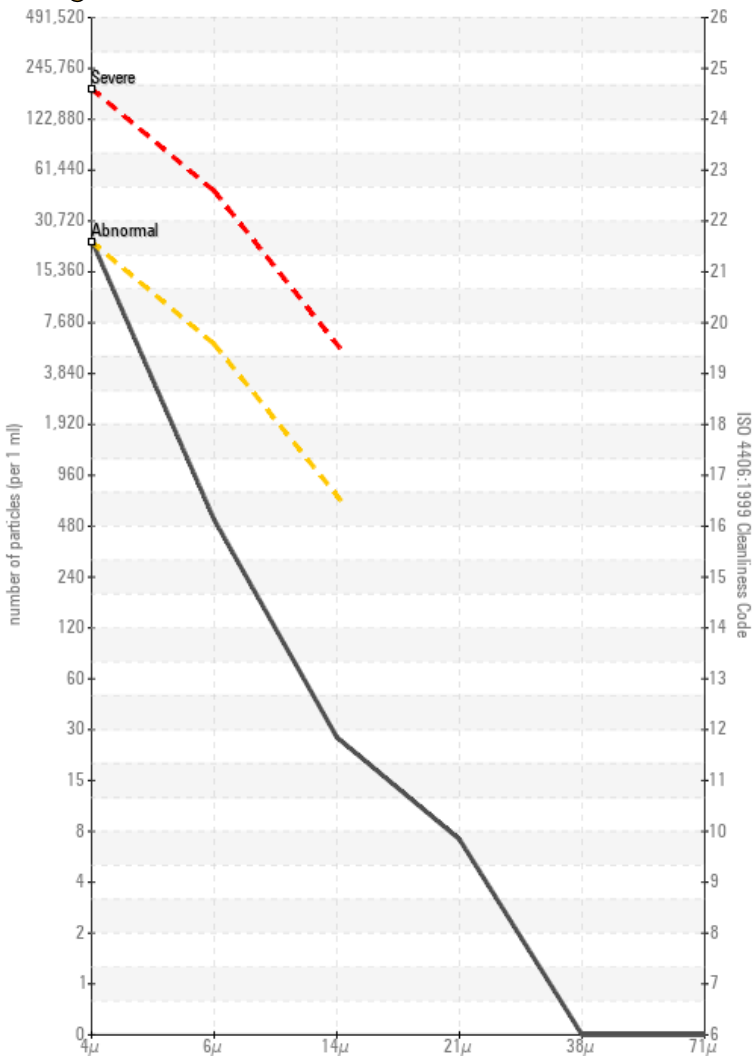
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

