

LIEBHERR

CONSTRUCTION EQUIPMENT



[[KIMMEL]] LIEBHERR LH50 145582-1216 - Hydraulic System

Sample No: LH0272949

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0272949	LH0268524	LH0243207	---
Sample Date	20 Nov 2023	14 Sep 2023	15 Mar 2023	---
Machine Hours	2062	1633	461	---
Oil Hours	0	1633	461	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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 10461 GRAND RIVER RD
 BRIGHTON, MI
 US 48116
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 F:



OIL CONDITION

Visc @ 40°C	cSt	43.1	43.4	45.6	---
Acid Number (AN)	mg KOH/g	1.08	1.16	1.01	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		12886	12832	1022	---
Particles >6µm		2651	3378	247	---
Particles >14µm		90	222	19	---
ISO 4406:1999 (c)		21/19/14	21/19/15	17/15/11	---
Silicon	ppm	4	4	2	---
Sodium	ppm	<1	2	0	---
Potassium	ppm	2	0	2	---

Diagnosis

Resample at the next service interval to monitor. All 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.



WEAR METALS

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



ADDITIVES

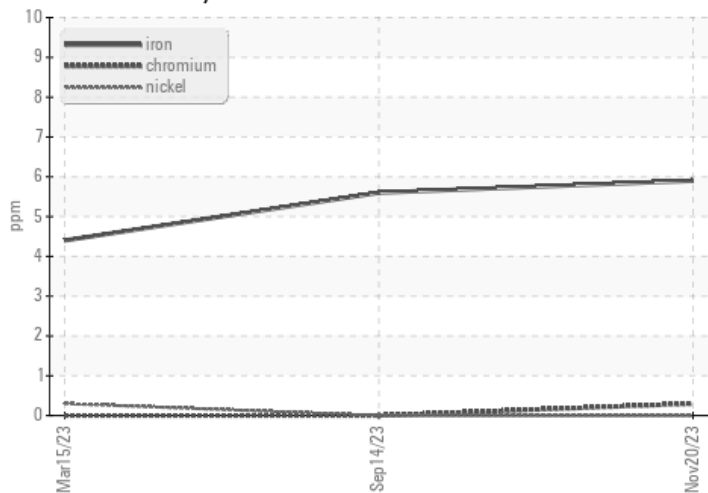
Calcium	ppm	1301	1403	1400	---
Magnesium	ppm	5	1	4	---
Zinc	ppm	724	722	727	---
Phosphorus	ppm	641	618	622	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: RECBRLH
Unique No: 10849438
Signed: Don Baldrige
Report Date: 30 Jan 2024

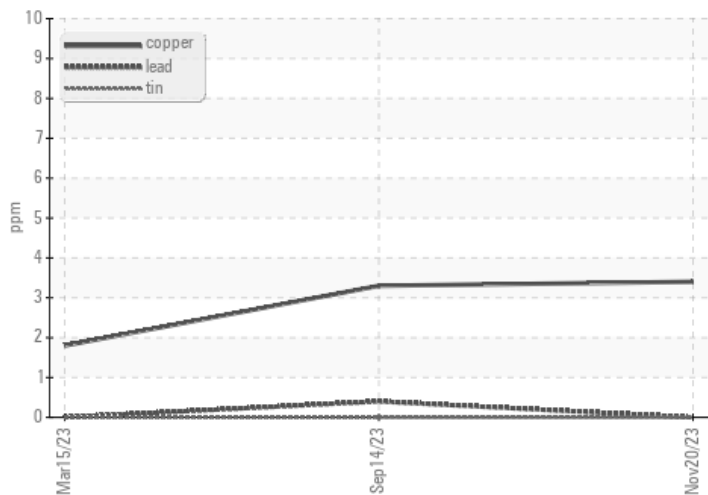


GRAPHS

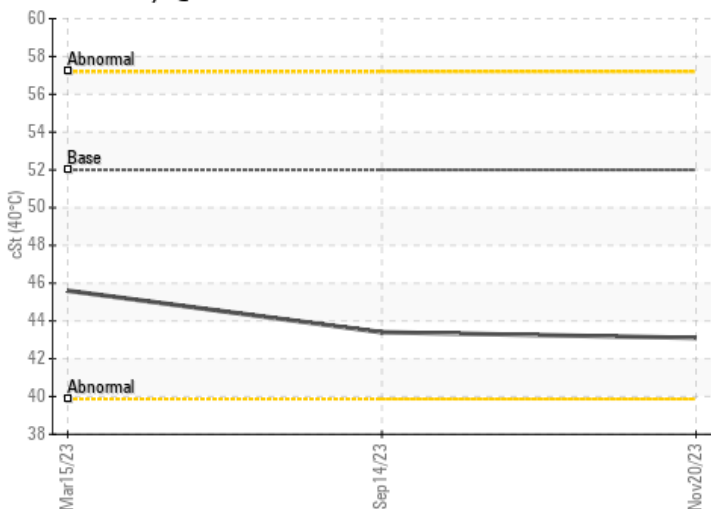
Ferrous Alloys



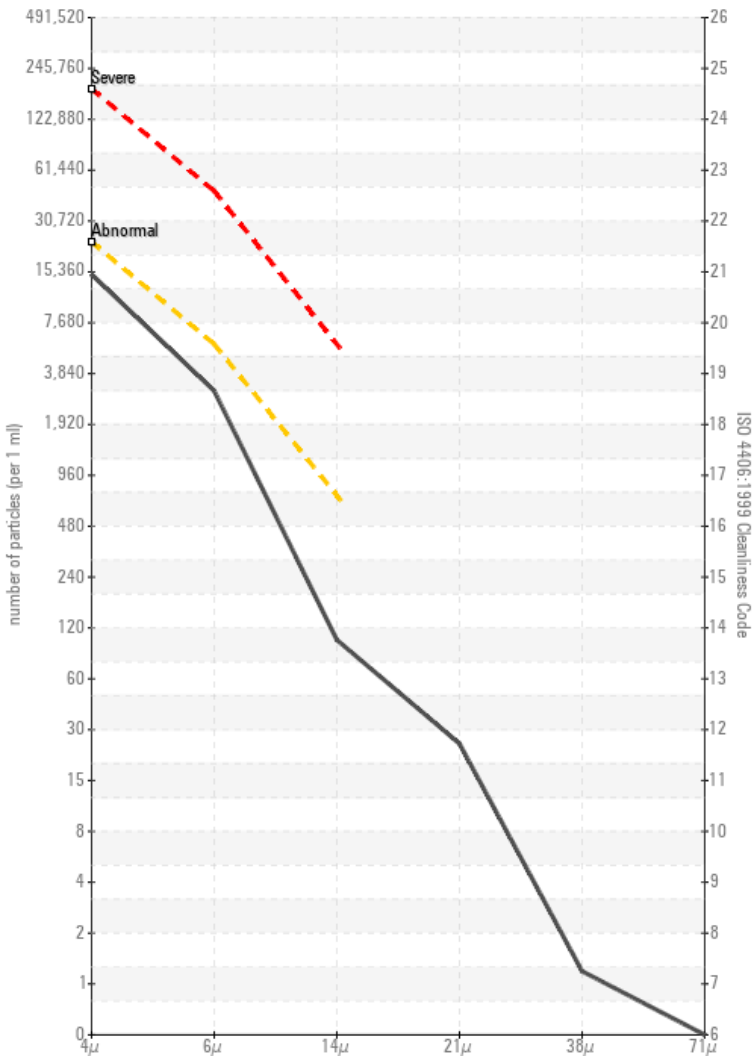
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

