

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 017976 - Hydraulic System

Sample No: LH0277614

Oil Type: {unknown}

HEAVY MACHINES INC

159 NORTH AVE
SKOWHEGAN, ME
US 04976

Contact: LARRY FOLEY

hmibangor@aol.com

T: (888)875-3954

F: (207)858-0051

Diagnosis

We advise that you check for visible metal particles in the oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Light concentration of visible metal present. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORMATION

Sample Number		LH0277614	LHMC011007	---	---
Sample Date		08 Jan 2024	29 Jul 2009	---	---
Machine Hours		5671	2370	---	---
Oil Hours		0	2370	---	---
Oil Changed		Not Changd	Not Changd	---	---
Sample Status		ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.7	66.62	---	---
Acid Number (AN)	mg KOH/g	---	● 0.656	---	---



CONTAMINATION

Water	%	● 0.022	NEG	---	---
Particles >4µm		● 87216	137768	---	---
Particles >6µm		● 24682	● 75048	---	---
Particles >14µm		● 650	● 12786	---	---
ISO 4406:1999 (c)		24/22/17	24/23/21	---	---
Silicon	ppm	● 4	● 2	---	---
Sodium	ppm	● 8	● 3	---	---
Potassium	ppm	● 2	● 0	---	---



WEAR METALS

Iron	ppm	● 10	● 4	---	---
Copper	ppm	● 32	● 4	---	---
Lead	ppm	● 2	● 17	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 3	● <1	---	---
Chromium	ppm	● <1	● 2	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	● 0	● 1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

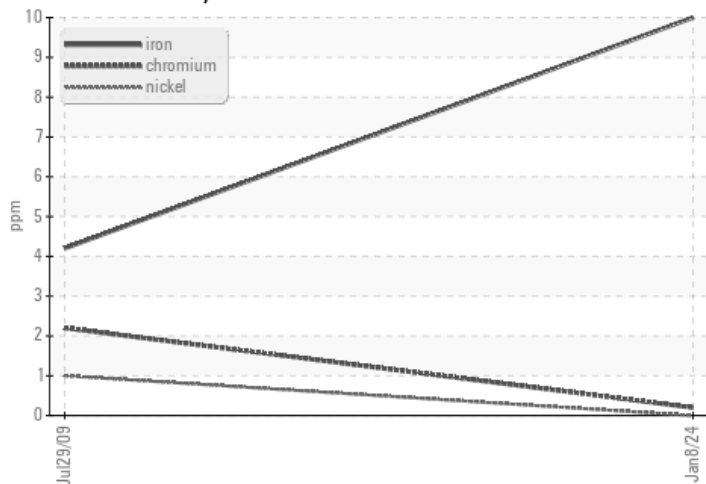
Calcium	ppm	653	1297	---	---
Magnesium	ppm	5	8	---	---
Zinc	ppm	517	395	---	---
Phosphorus	ppm	429	336	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	4	---	---

Depot: LEC0052
 Unique No: 5708637
 Signed: Kevin Marson
 Report Date: 11 Jan 2024

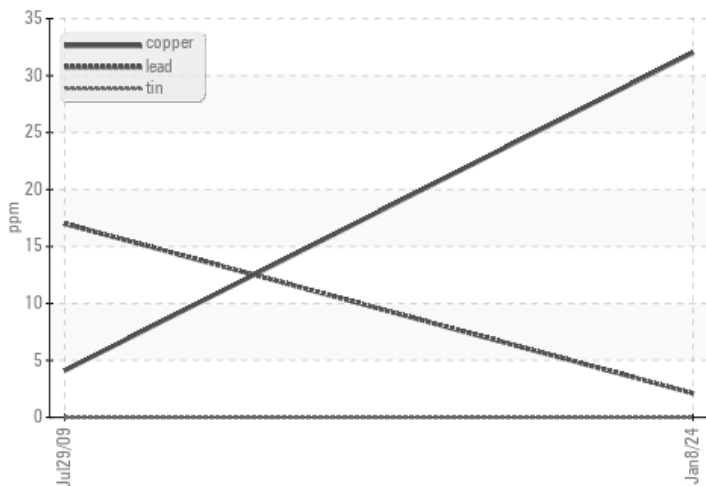


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)

