

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 112545-1253 - Hydraulic System

Sample No: LH0270118

Oil Type: NOT GIVEN

GREEN METALS CANADA

224 BEARDS LANE

WOODSTOCK, ON

CA N4S 7W3

Contact: Jamie Depotie

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F: (519)539-5130

Diagnosis

We advise that you check for visible metal particles in the oil. 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. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORMATION

Sample Number		LH0270118	LH0261587	LH0251783	LH0247426
Sample Date		27 Sep 2023	08 May 2023	10 Mar 2023	13 Dec 2022
Machine Hours		1297	11758	11210	10473
Oil Hours		0	0	0	0
Oil Changed		Not Changd	Not Changd	Not Changd	Changed
Sample Status		MARGINAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	41.2	● 42.0	● 42.5	● 41.1
Visc @ 100°C	cSt	7.7	---	---	---
Viscosity Index (VI)	Scale	158	---	---	---



CONTAMINATION

Particles >4µm		● 3642	● 4571	● 4933	● 1817
Particles >6µm		● 889	● 1046	● 1518	● 542
Particles >14µm		● 43	● 44	● 128	● 24
ISO 4406:1999 (c)		19/17/13	19/17/13	19/18/14	18/16/12
Silicon	ppm	● <1	● <1	● <1	● <1
Sodium	ppm	● 2	● 2	● 2	● 2
Potassium	ppm	● 0	● 0	● <1	● <1



WEAR METALS

Iron	ppm	● 20	● 14	● 12	● 17
Copper	ppm	● 6	● 5	● 4	● 7
Lead	ppm	● <1	● <1	● <1	● <1
Tin	ppm	● 0	● <1	● 0	● 0
Aluminum	ppm	● 0	● <1	● <1	● <1
Chromium	ppm	● <1	● <1	● 0	● <1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	● <1	● 0	● <1	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	310	316	318	475
Magnesium	ppm	3	2	3	4
Zinc	ppm	799	776	787	738
Phosphorus	ppm	627	663	693	646
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	<1	<1

Depot: GRE224WOO
 Unique No: 5654955
 Signed: Kevin Marson
 Report Date: 03 Oct 2023

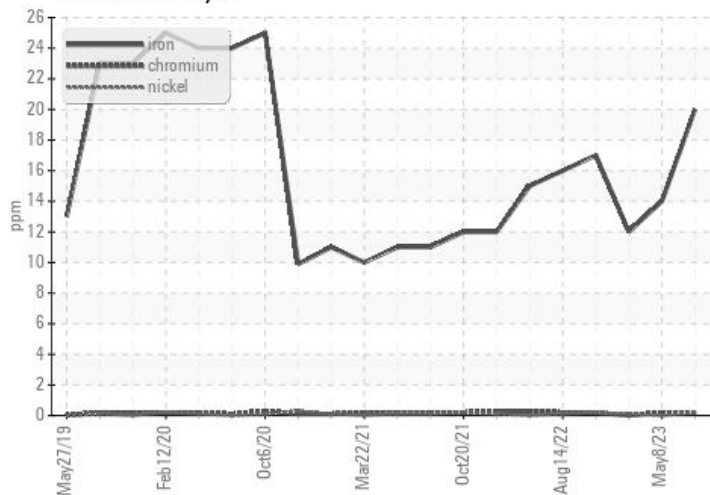
LIEBHERR

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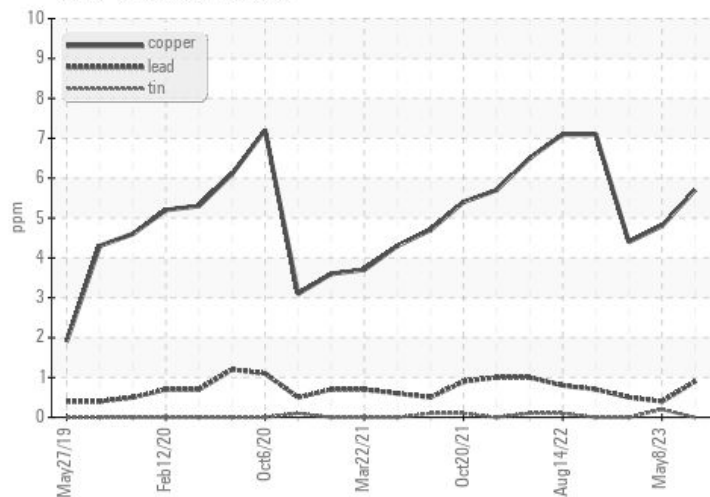


GRAPHS

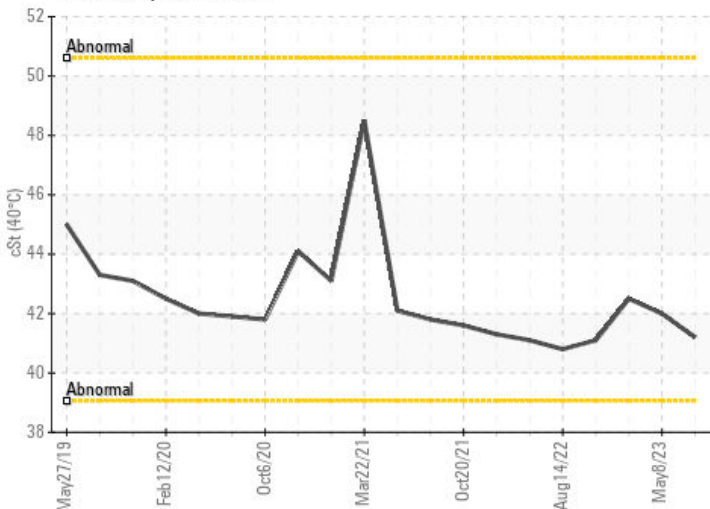
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)

