

LIEBHERR

CONSTRUCTION EQUIPMENT



[(347725)] LIEBHERR T60-9 022086-1709 - Hydraulic System

Sample No: LH0270429

Oil Type: NOT GIVEN

A.M.I ATTACHMENTS INC.

1270 GEDDES STREET

HAWKESVILLE, ON

CA N0B 1X0

Contact: Service Manager

T:

F:

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. Moderate concentration of visible metal present. Cylinder wear is indicated. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORMATION

Sample Number		LH0270429	LH0251361	LH0227316	---
Sample Date		14 Sep 2023	11 Jan 2023	18 Mar 2022	---
Machine Hours		2083	1528	810	---
Oil Hours		0	0	0	---
Oil Changed		N/A	Not Changd	Not Changd	---
Sample Status		SEVERE	NORMAL	ATTENTION	---



OIL CONDITION

Visc @ 40°C	cSt	● 44.1	● 44.5	● 45.8	---
-------------	-----	--------	--------	--------	-----



CONTAMINATION

Particles >4µm		● 145950	● 13433	● 29417	---
Particles >6µm		● 91092	● 3210	● 1469	---
Particles >14µm		● 5202	● 152	● 39	---
ISO 4406:1999 (c)		24/24/20	21/19/14	22/18/12	---
Silicon	ppm	● 4	● 4	● 4	---
Sodium	ppm	● 1	● 1	● <1	---
Potassium	ppm	● 1	● 1	● 1	---



WEAR METALS

Iron	ppm	● 12	● 5	● 5	---
Copper	ppm	● 2	● 2	● 2	---
Lead	ppm	● 1	● 1	● <1	---
Tin	ppm	● 0	● 0	● 0	---
Aluminum	ppm	● <1	● <1	● <1	---
Chromium	ppm	● <1	● 0	● 0	---
Molybdenum	ppm	● 0	● 0	● 0	---
Nickel	ppm	● <1	● <1	● <1	---
Titanium	ppm	● 0	● 0	● 0	---
Silver	ppm	● 0	● 0	● 0	---
Manganese	ppm	● <1	● <1	● <1	---
Vanadium	ppm	● 0	● 0	● 0	---



ADDITIVES

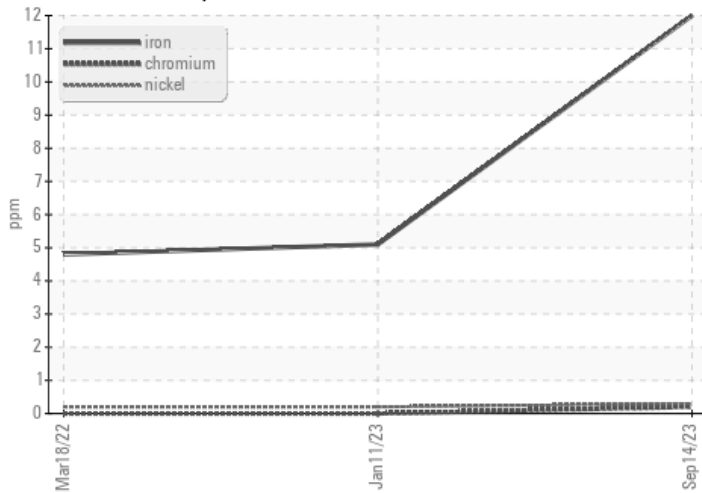
Calcium	ppm	1116	1320	1311	---
Magnesium	ppm	4	4	4	---
Zinc	ppm	653	664	683	---
Phosphorus	ppm	606	642	642	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	1	1	---

Depot: AMIHAW
 Unique No: 5643941
 Signed: Bill Quesnel
 Report Date: 19 Sep 2023

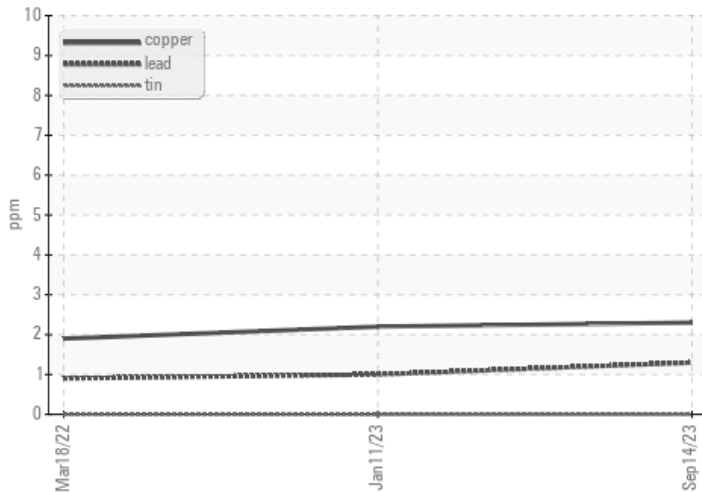


GRAPHS

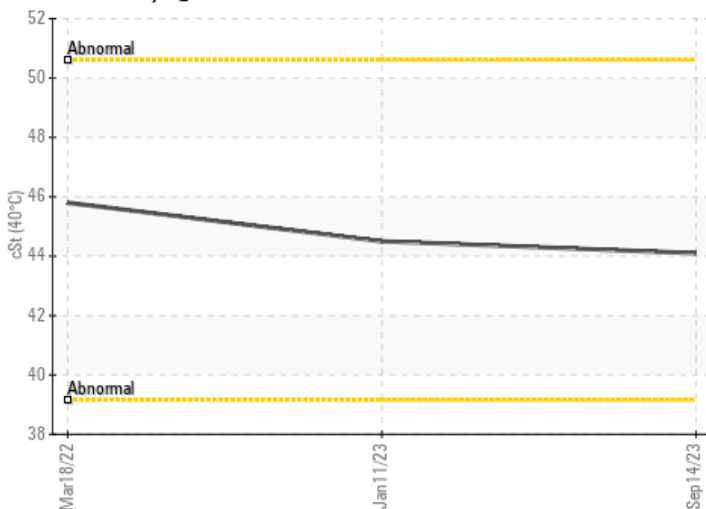
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)

