

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 133072 - Hydraulic System

Sample No: LH0265752

Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LH0265752	LH0185894	---	---
Sample Date	19 Jun 2023	10 Dec 2020	---	---
Machine Hours	22441	19061	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	SEVERE	SEVERE	---	---

#### LIEBHERR CANADA LTD.

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CA L7L 5Z8

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#### OIL CONDITION

Visc @ 40°C	cSt	36.1	25.4	---	---
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#### CONTAMINATION

Particles >4µm		● 41523	● 173659	---	---
Particles >6µm		● 8830	● 141976	---	---
Particles >14µm		● 255	● 49469	---	---
ISO 4406:1999 (c)		23/20/15	25/24/23	---	---
Silicon	ppm	● 2	● 2	---	---
Sodium	ppm	● <1	● 2	---	---
Potassium	ppm	● 1	● <1	---	---



#### WEAR METALS

PQ		---	● 0	---	---
Iron	ppm	● 5	27	---	---
Copper	ppm	● 6	● 7	---	---
Lead	ppm	● <1	● 2	---	---
Tin	ppm	● 0	● <1	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● 0	● <1	---	---
Molybdenum	ppm	1	0	---	---
Nickel	ppm	● <1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	5	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	82	17	---	---
Magnesium	ppm	4	<1	---	---
Zinc	ppm	602	207	---	---
Phosphorus	ppm	626	553	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	2	2	---	---

#### Diagnosis

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: LIEMIS

Unique No: 5594374

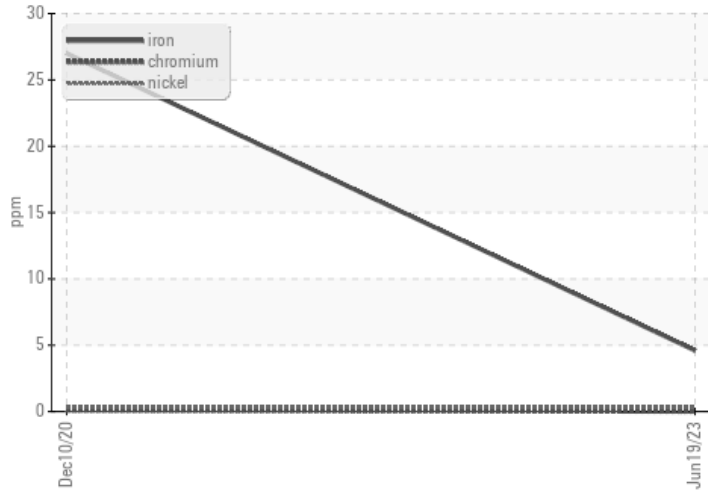
Signed: Kevin Marson

Report Date: 21 Jun 2023

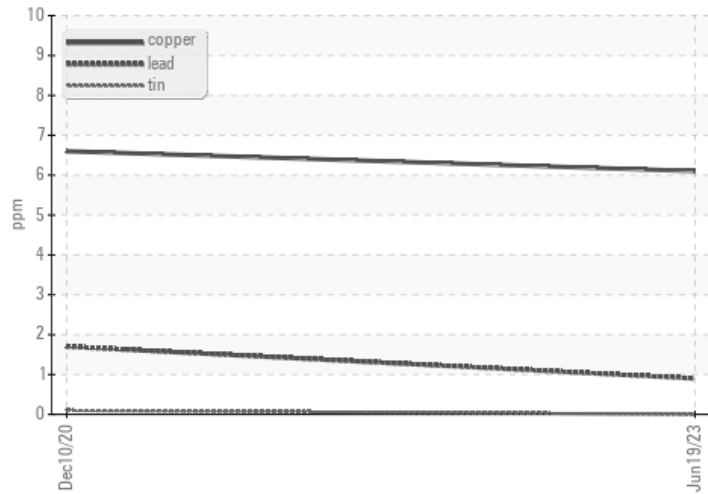


### GRAPHS

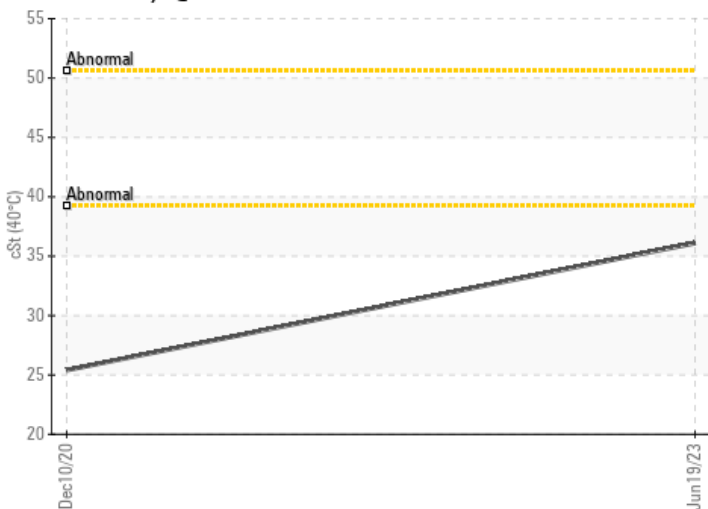
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

