

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 15070 - Hydraulic System

Sample No: LH0286573

Oil Type: {unknown}

#### LIEBHERR CANADA LTD.

1015 SUTTON DRIVE

BURLINGTON, ON

CA L7L 5Z8

Contact: Steve Lehto

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#### 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 recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is ISO 46 AW Hydraulic Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. **DISCLAIMER:** Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified. Chromium and iron ppm levels are abnormal. Light concentration of visible metal present. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Light concentration of visible dirt/debris present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



### Sample Information

Sample Number	LH0286573	---	---	---
Sample Date	21 Apr 2024	---	---	---
Machine Hours	15792	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



### Oil Condition

Visc @ 40°C	cSt	● 41.6	---	---	---
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### Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 80049	---	---	---
Particles >6µm		● 7185	---	---	---
Particles >14µm		● 368	---	---	---
ISO 4406:1999 (c)		24/20/16	---	---	---
Silicon	ppm	● 4	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● <1	---	---	---



### Wear Metals

PQ		● 0	---	---	---
Iron	ppm	● 22	---	---	---
Copper	ppm	● 6	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 15	---	---	---
Molybdenum	ppm	5	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



### Additives

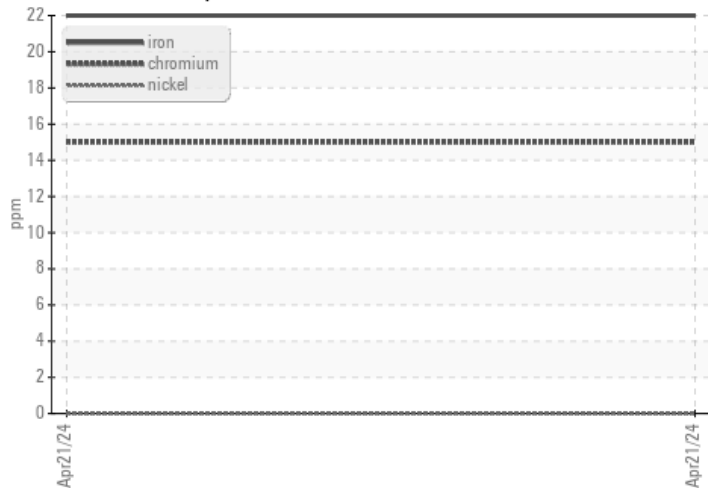
Calcium	ppm	280	---	---	---
Magnesium	ppm	9	---	---	---
Zinc	ppm	478	---	---	---
Phosphorus	ppm	386	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	6	---	---	---

Depot: LIEMIS  
 Unique No: 5763751  
 Signed: Kevin Marson  
 Report Date: 24 Apr 2024

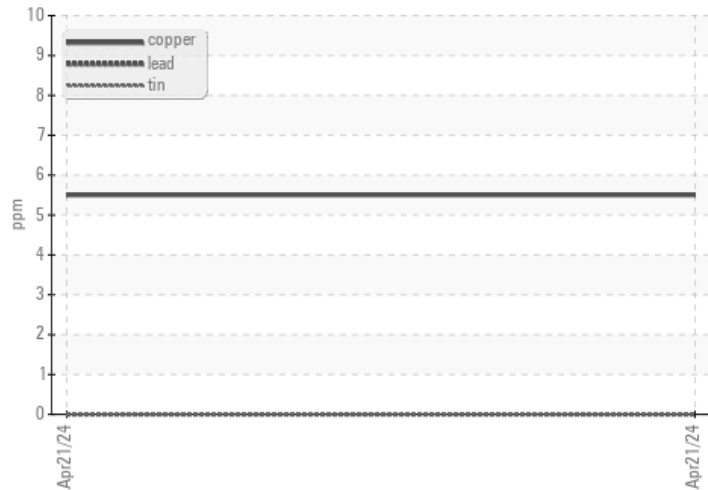


### Graphs

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



Particle Filter (Magn: 100 x)

