# LIEBHERR
## CONSTRUCTION EQUIPMENT


# 25422 - Hydraulic System

**Sample No:** LH0286665

**Oil Type:** {unknown}

**LIEBHERR CANADA LTD.**
1015 SUTTON DRIVE
BURLINGTON, ON
CA L7L 5Z8
Contact: Steve Lehto
steve.lehto@liebherr.com
T: (905)319-9222
F: (905)319-6617

## SAMPLE INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **LH0286665** | --- | --- | --- |
| Sample Date | | **18 Mar 2024** | --- | --- | --- |
| Machine Hours | | **1571** | --- | --- | --- |
| Oil Hours | | **0** | --- | --- | --- |
| Oil Changed | | **Not Changd** | --- | --- | --- |
| Sample Status | | **ABNORMAL** | --- | --- | --- |

## OIL CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | **43.4** | --- | --- | --- |

## CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Water | % | **NEG** | --- | --- | --- |
| Particles >4µm | | **13810** | --- | --- | --- |
| Particles >6µm | | **2361** | --- | --- | --- |
| Particles >14µm | | **55** | --- | --- | --- |
| ISO 4406:1999 (c) | | **21/18/13** | --- | --- | --- |
| Silicon | ppm | **8** | --- | --- | --- |
| Sodium | ppm | **6** | --- | --- | --- |
| Potassium | ppm | **2** | --- | --- | --- |

## WEAR METALS

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **7** | --- | --- | --- |
| Copper | ppm | **9** | --- | --- | --- |
| Lead | ppm | **<1** | --- | --- | --- |
| Tin | ppm | **0** | --- | --- | --- |
| Aluminum | ppm | **1** | --- | --- | --- |
| Chromium | ppm | **0** | --- | --- | --- |
| Molybdenum | ppm | **0** | --- | --- | --- |
| Nickel | ppm | **<1** | --- | --- | --- |
| Titanium | ppm | **0** | --- | --- | --- |
| Silver | ppm | **0** | --- | --- | --- |
| Manganese | ppm | **0** | --- | --- | --- |
| Vanadium | ppm | **0** | --- | --- | --- |

## ADDITIVES

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **1404** | --- | --- | --- |
| Magnesium | ppm | **4** | --- | --- | --- |
| Zinc | ppm | **675** | --- | --- | --- |
| Phosphorus | ppm | **613** | --- | --- | --- |
| Barium | ppm | **0** | --- | --- | --- |
| Boron | ppm | **<1** | --- | --- | --- |

## Diagnosis

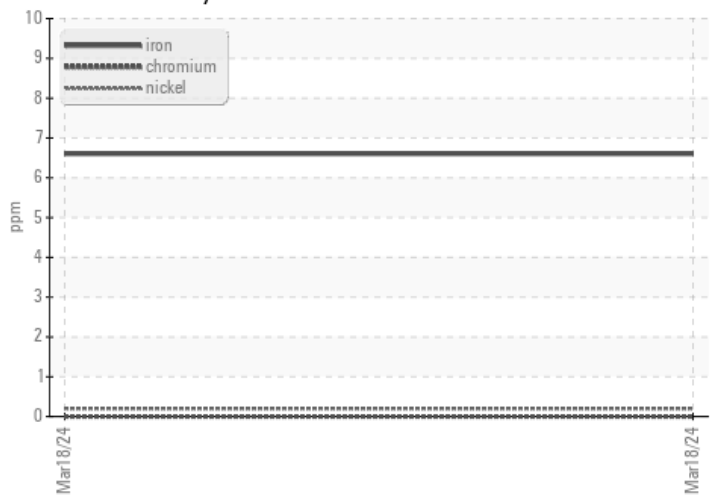
We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a moderate 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:** 5748197
**Signed:** Wes Davis
**Report Date:** 20 Mar 2024

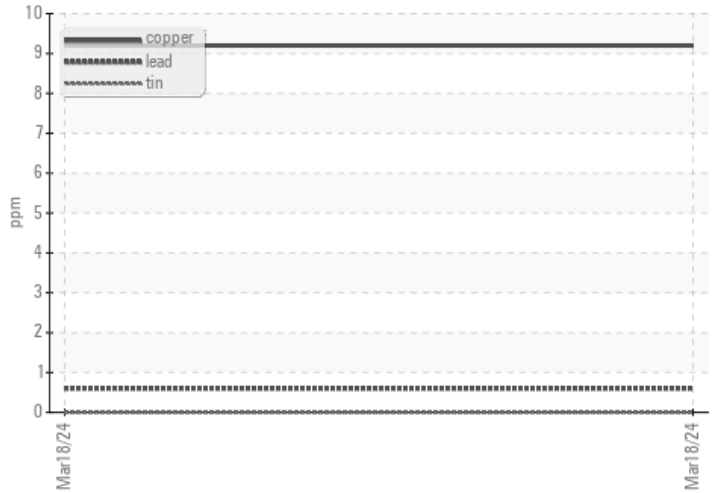
# LIEBHERR
## CONSTRUCTION EQUIPMENT

## GRAPHS

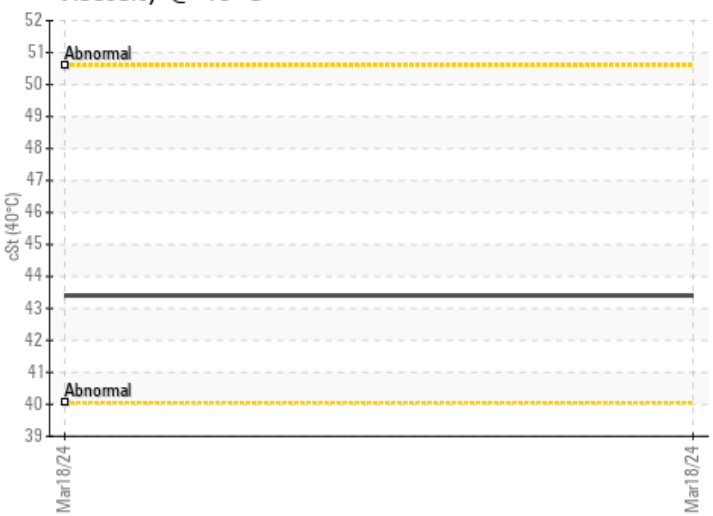
Ferrous Alloys




Non-ferrous Metals




Viscosity @ 40°C




Particle Count