

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 52024 - Hydraulic System

Sample No: LH0282264

Oil Type: AW HYDRAULIC OIL ISO 46



#### SAMPLE INFORMATION

Sample Number	LH0282264	---	---	---
Sample Date	21 Jan 2024	---	---	---
Machine Hours	3500	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR CANADA LTD.

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CA L7L 5Z8

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#### OIL CONDITION

Visc @ 40°C	cSt	● 42.1	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 2109	---	---	---
Particles >6µm		● 457	---	---	---
Particles >14µm		● 37	---	---	---
ISO 4406:1999 (c)		18/16/12	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 1	---	---	---

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	● 10	---	---	---
Copper	ppm	● 11	---	---	---
Lead	ppm	● 1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 0	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 867	---	---	---
Magnesium	ppm	● 9	---	---	---
Zinc	ppm	● 693	---	---	---
Phosphorus	ppm	● 591	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● <1	---	---	---

Depot: LIEMIS

Unique No: 5711401

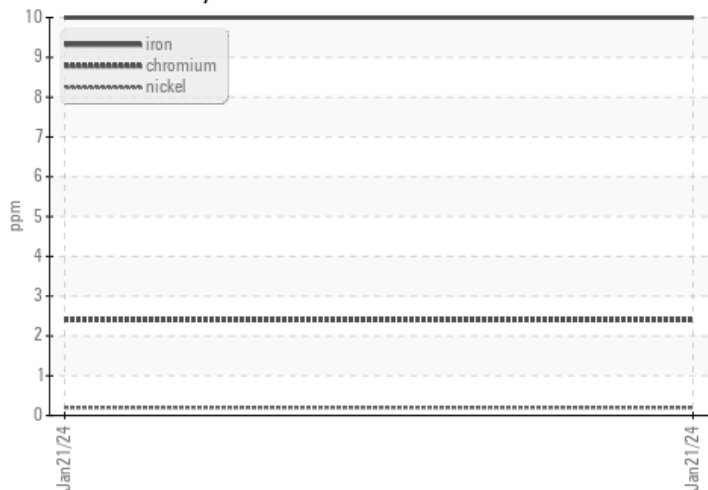
Signed: Kevin Marson

Report Date: 23 Jan 2024

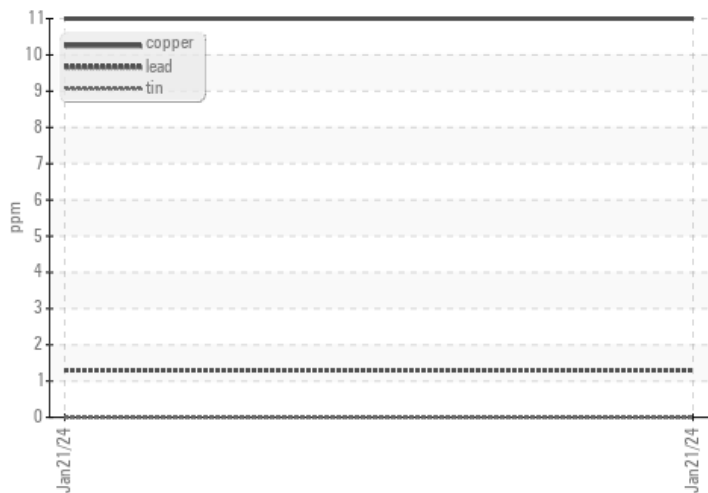


### GRAPHS

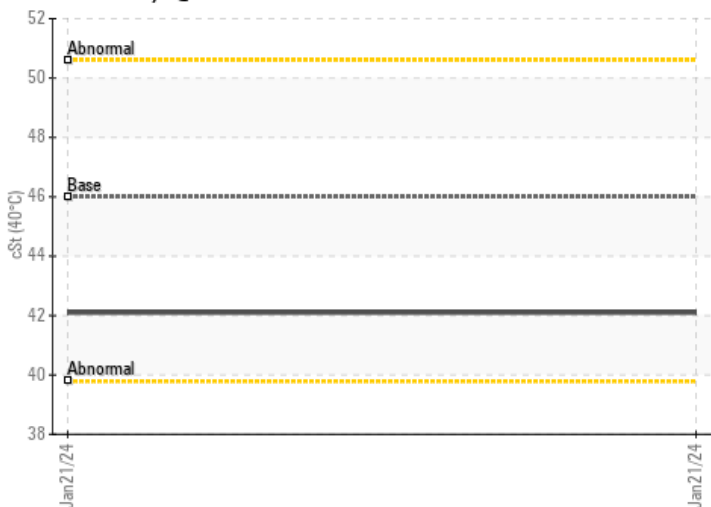
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

