

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 2528 - Hydraulic System

Sample No: LH0270168

Oil Type: {unknown}



#### SAMPLE INFORMATION

Sample Number	LH0270168	---	---	---
Sample Date	01 Apr 2024	---	---	---
Machine Hours	2528	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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#### OIL CONDITION

Visc @ 40°C	cSt	● 46.6	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 74481	---	---	---
Particles >6µm		● 32337	---	---	---
Particles >14µm		● 2855	---	---	---
ISO 4406:1999 (c)		23/22/19	---	---	---
Silicon	ppm	● 0	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 0	---	---	---

#### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. 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 particulates (2 to 100 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### WEAR METALS

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



#### ADDITIVES

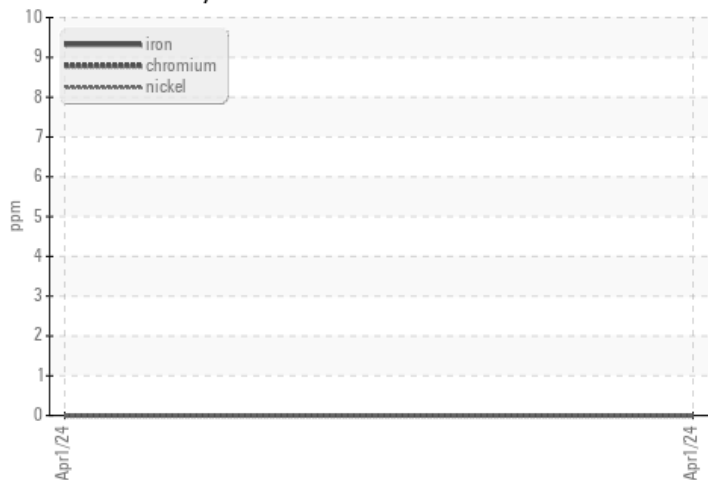
Calcium	ppm	98	---	---	---
Magnesium	ppm	<1	---	---	---
Zinc	ppm	811	---	---	---
Phosphorus	ppm	618	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

Depot: LIEMIS  
 Unique No: 5759243  
 Signed: Wes Davis  
 Report Date: 03 Apr 2024

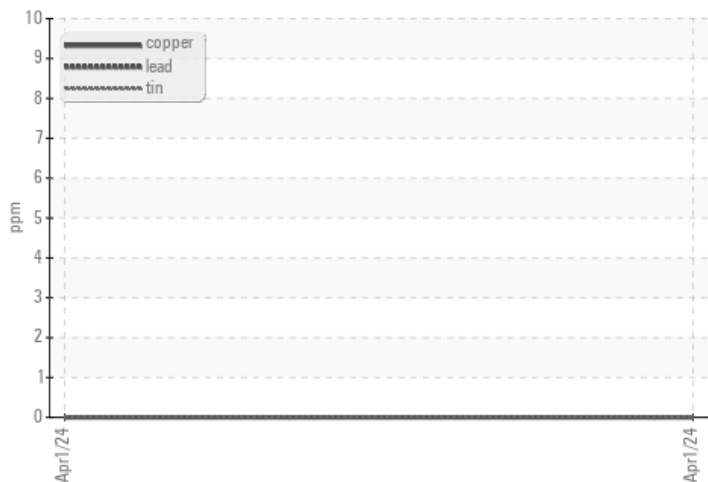


### GRAPHS

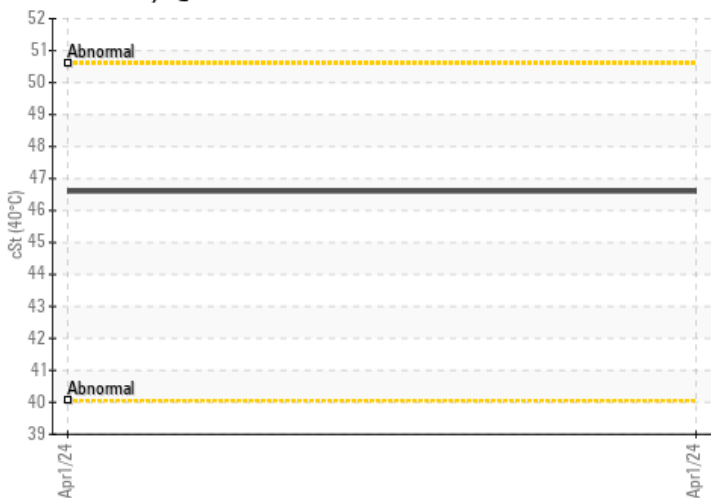
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

