

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 24999 - Hydraulic System

Sample No: LH0281444

Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LH0281444	LH0270452	---	---
Sample Date	27 Nov 2023	23 Jul 2023	---	---
Machine Hours	997	5414	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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 joseph.gillis@liebherr.com  
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#### OIL CONDITION

Visc @ 40°C	cSt	43.7	44.5	---	---
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#### CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		11902	73649	---	---
Particles >6µm		1816	16902	---	---
Particles >14µm		47	342	---	---
ISO 4406:1999 (c)		21/18/13	23/21/16	---	---
Silicon	ppm	5	6	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	<1	<1	---	---

#### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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	7	6	---	---
Copper	ppm	5	6	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

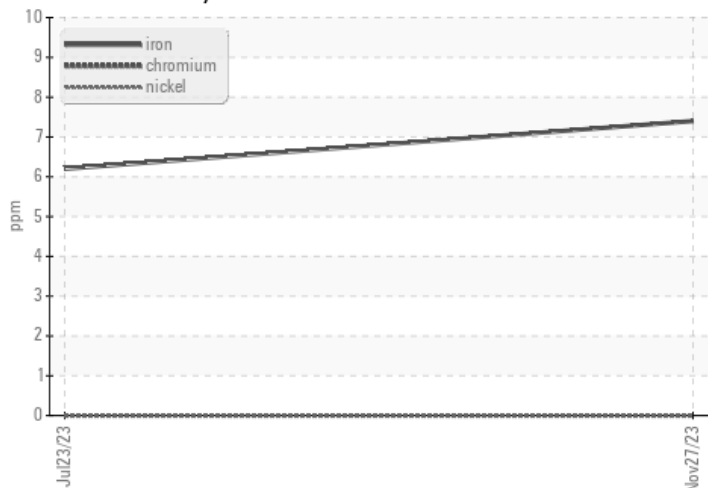
Calcium	ppm	1106	1305	---	---
Magnesium	ppm	4	4	---	---
Zinc	ppm	707	692	---	---
Phosphorus	ppm	608	643	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	<1	<1	---	---

Depot: LIEMIS  
 Unique No: 5684530  
 Signed: Wes Davis  
 Report Date: 30 Nov 2023

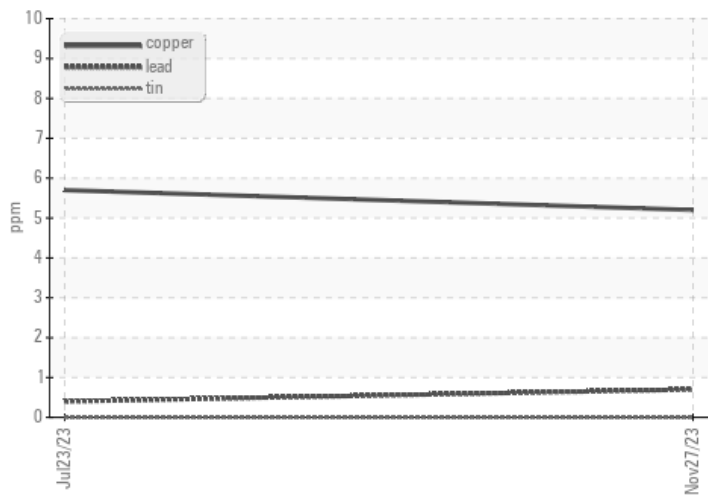


### GRAPHS

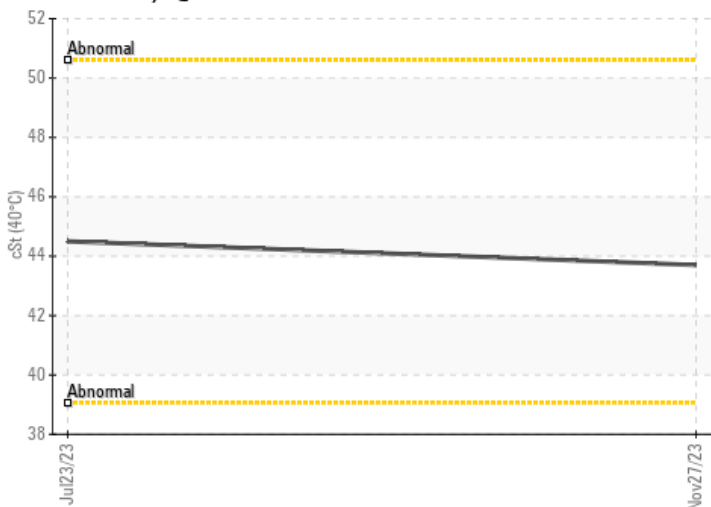
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

