

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 077508 - Hydraulic System

Sample No: LH0289770

Oil Type: {unknown}



**J.M. BASTILLE ACIER INC**  
 396 RUE TEMISCOUATA,, CP 744  
 RIVIERE DU LOUP, QC  
 CA G5R 3Z3  
 Contact: MANAGER SERVICE

T: (418)862-3346  
 F:



#### Sample Information

Sample Number	LH0289770	---	---	---
Sample Date	01 May 2024	---	---	---
Machine Hours	16364	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---



#### Oil Condition

Visc @ 40°C	cSt	38.5	---	---	---
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#### Contamination

Water	%	NEG	---	---	---
Particles >4µm		135667	---	---	---
Particles >6µm		58718	---	---	---
Particles >14µm		5064	---	---	---
ISO 4406:1999 (c)		24/23/20	---	---	---
Silicon	ppm	1	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	<1	---	---	---



#### Wear Metals

Iron	ppm	30	---	---	---
Copper	ppm	3	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### Additives

Calcium	ppm	64	---	---	---
Magnesium	ppm	13	---	---	---
Zinc	ppm	653	---	---	---
Phosphorus	ppm	539	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

#### Diagnosis

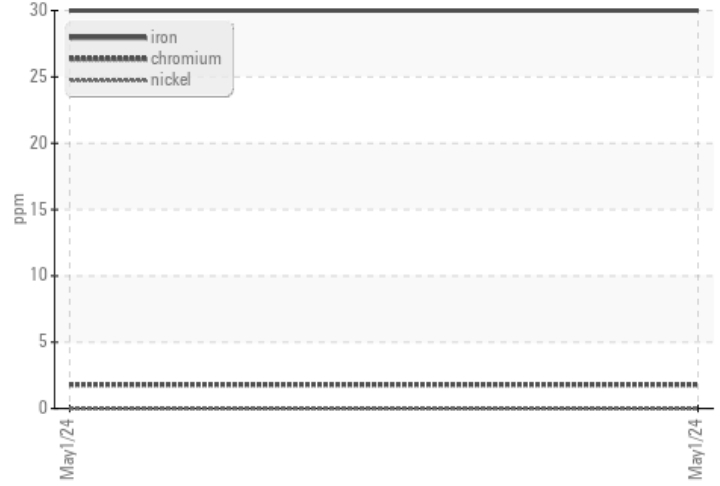
We advise that you check all areas where contaminants can enter the system. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. Free water present. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**Depot:** JMBRIV  
**Unique No:** 5776111  
**Signed:** Kevin Marson  
**Report Date:** 13 May 2024

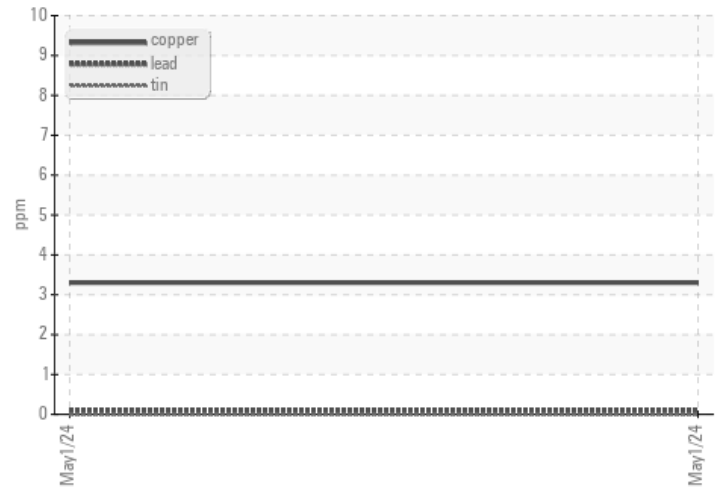


### Graphs

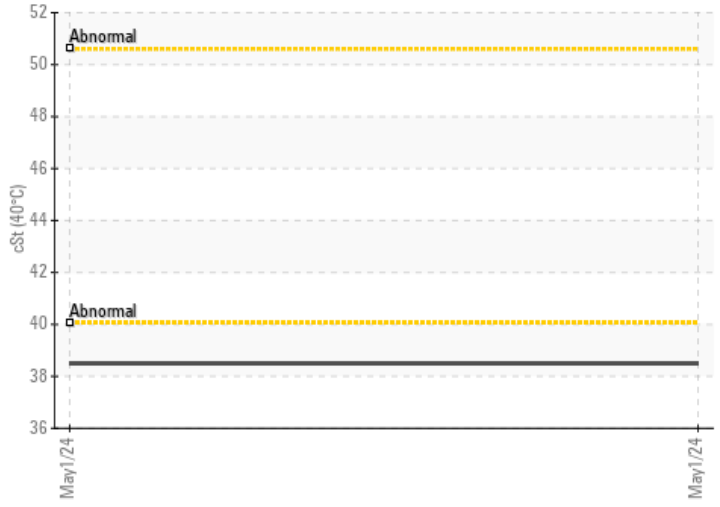
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

