

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1203-75955 - Hydraulic System

Sample No: LH0268403

Oil Type: {unknown}



**NORBORD MN**  
 4409 NORTHWOOD RD NW  
 SOLWAY, MN  
 US 56678  
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#### Sample Information

Sample Number	LH0268403	LH0258884	---	---
Sample Date	09 Jul 2024	12 Mar 2024	---	---
Machine Hours	1517	1517	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



#### Oil Condition

Visc @ 40°C	cSt	● 49.0	● 42.3	---	---
Acid Number (AN)	mg KOH/g	● 0.60	● 0.78	---	---



#### Contamination

Water	%	NEG	NEG	---	---
Particles >4µm		● 1036	● 3292	---	---
Particles >6µm		● 363	● 1335	---	---
Particles >14µm		● 45	● 61	---	---
ISO 4406:1999 (c)		17/16/13	19/18/13	---	---
Silicon	ppm	● 2	● 3	---	---
Sodium	ppm	● 2	● 3	---	---
Potassium	ppm	● <1	● 2	---	---



#### Wear Metals

Iron	ppm	● 19	● 24	---	---
Copper	ppm	● 3	● 6	---	---
Lead	ppm	● 0	● 3	---	---
Tin	ppm	● 0	● 3	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● <1	● 1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	<1	---	---



#### Additives

Calcium	ppm	496	771	---	---
Magnesium	ppm	11	2	---	---
Zinc	ppm	537	495	---	---
Phosphorus	ppm	478	451	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	2	---	---

#### Diagnosis

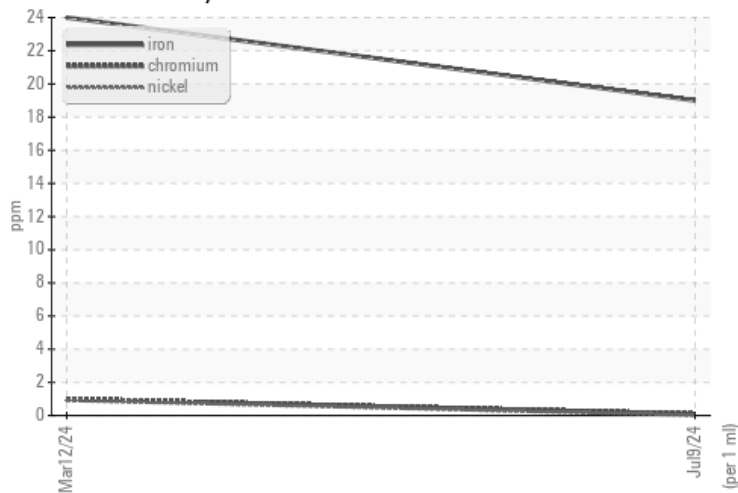
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** NORSOLLH  
**Unique No:** 11127188  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2024

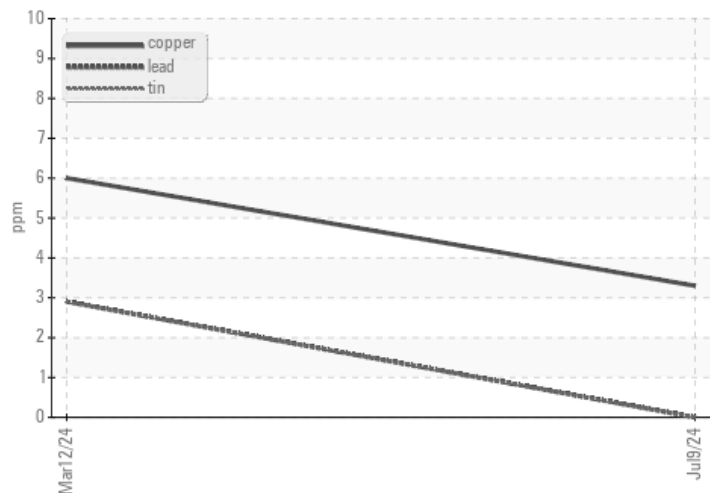


### Graphs

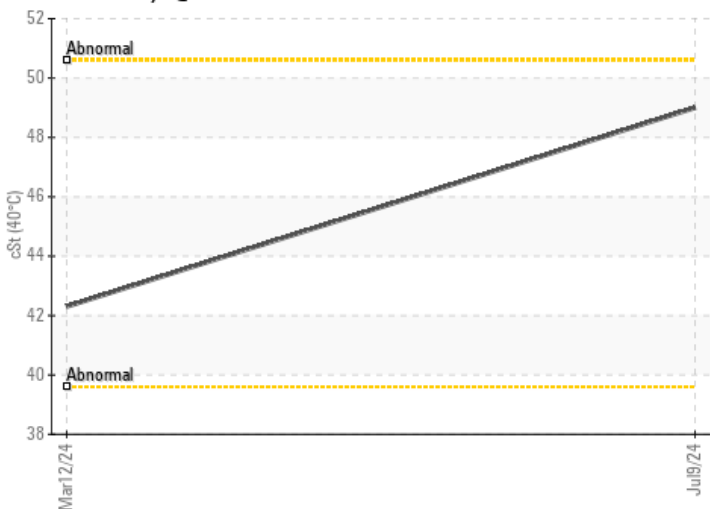
#### Ferrous Alloys



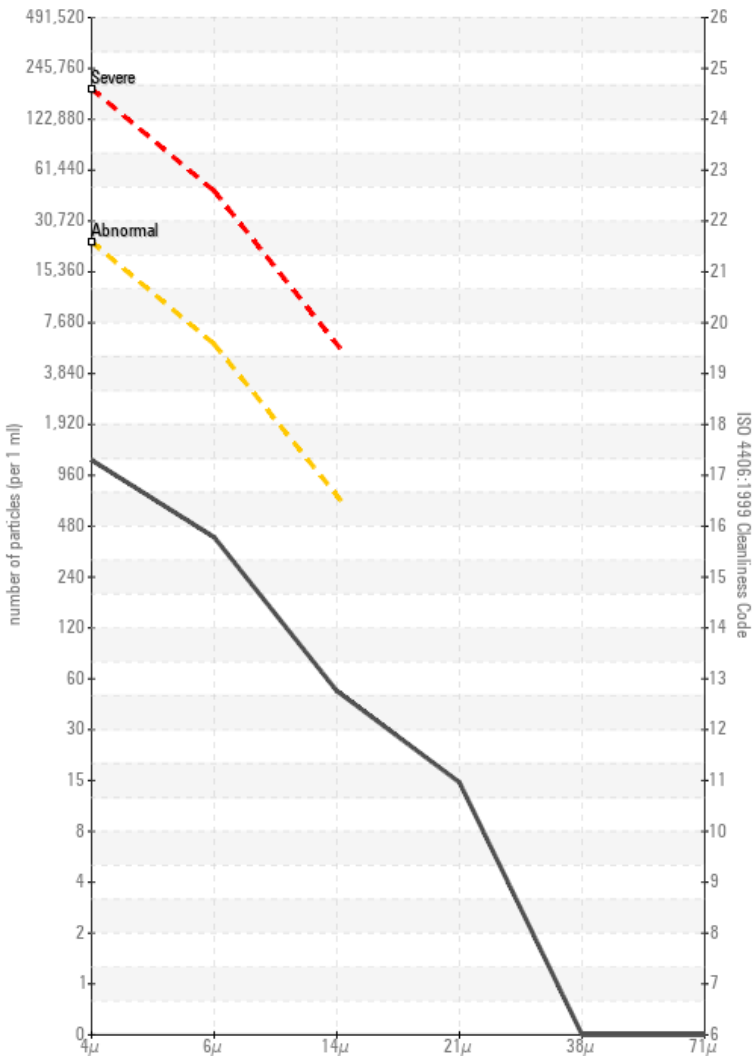
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

