

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(361220)] LIEBHERR LH50M 134706-1216 - Hydraulic System

Sample No: LH  
Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LH	LH0250100	LH0242764	LH0242825
Sample Date	12 Sep 2023	27 Mar 2023	21 Jan 2023	31 Oct 2022
Machine Hours	4000	2610	2610	2020
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ATTENTION

**Industrial Metals**  
550 Messier St.  
Winnipeg, MB  
CA R2J 0G5  
Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	44.2	43.3	43.6	43.9
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T:  
F:



#### CONTAMINATION

Water	%	---	0.161	---	0.081
Particles >4µm		14043	15354	34484	22240
Particles >6µm		3274	4577	11794	6268
Particles >14µm		98	218	1058	410
ISO 4406:1999 (c)		21/19/14	21/19/15	22/21/17	22/20/16
Silicon	ppm	2	2	2	2
Sodium	ppm	<1	1	<1	1
Potassium	ppm	1	2	<1	<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	34	35	35	32
Copper	ppm	3	3	3	2
Lead	ppm	<1	1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

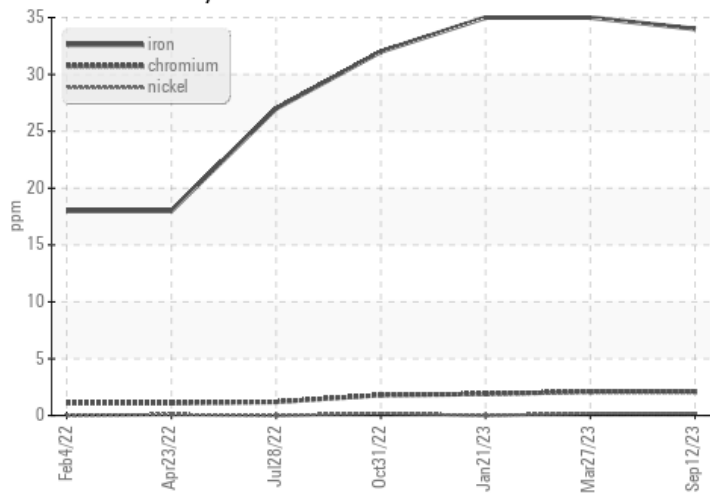
Calcium	ppm	590	806	801	794
Magnesium	ppm	2	3	2	2
Zinc	ppm	767	770	751	761
Phosphorus	ppm	724	689	671	689
Barium	ppm	0	0	0	0
Boron	ppm	7	<1	<1	<1

Depot: IND550WIN  
Unique No: 5644229  
Signed: Wes Davis  
Report Date: 19 Sep 2023

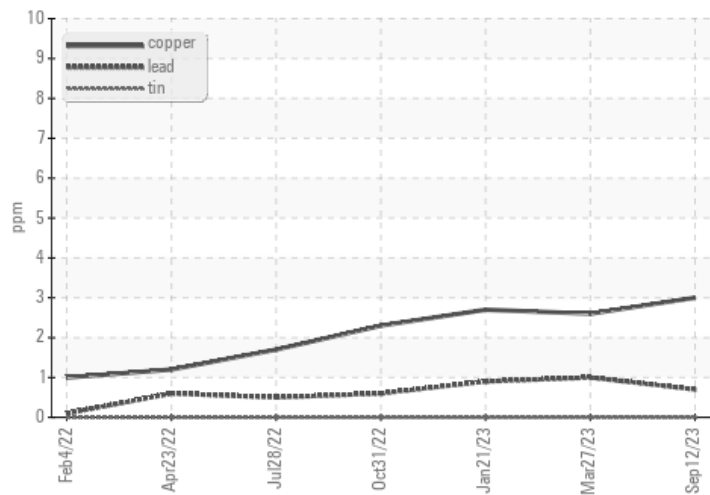


### GRAPHS

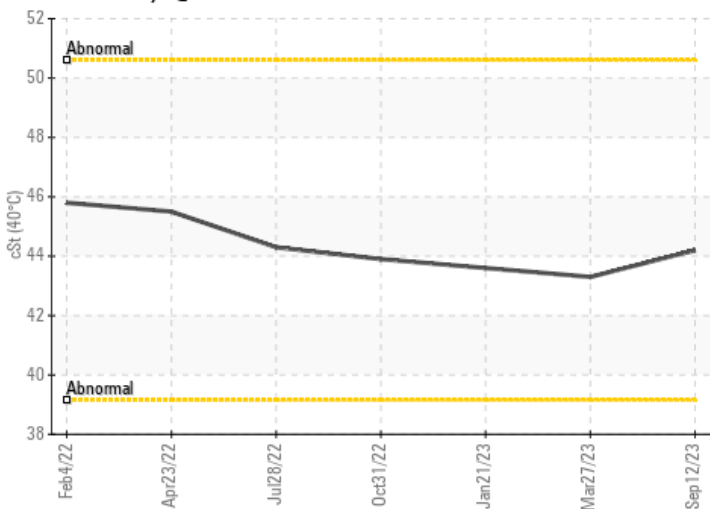
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

