

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 121164-1216 - Hydraulic System

Sample No: LH

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

**ACIER CENTURY INC**  
600 BERGE DU CANAL  
LACHINE, QC  
CA H8R 1H4  
Contact: SERVICE

T:  
F:

#### Diagnosis

We advise that you check for visible metal particles in the oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Light concentration of visible metal present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



## SAMPLE INFORMATION

Sample Number	LH	LH0235218	LH	LH0177780
Sample Date	02 Oct 2023	08 Nov 2022	04 Oct 2021	06 Oct 2020
Machine Hours	4259	3298	0	0
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	N/A	N/A
Sample Status	MARGINAL	NORMAL	NORMAL	NORMAL



## OIL CONDITION

Visc @ 40°C	cSt	● 40.0	● 40.2	● 41.3	● 44.2
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## CONTAMINATION

Particles >4µm		● 1273	● 6115	● 2323	● 4020
Particles >6µm		● 265	● 1804	● 356	● 367
Particles >14µm		● 26	● 111	● 19	● 8
ISO 4406:1999 (c)		17/15/12	20/18/14	18/16/11	19/16/10
Silicon	ppm	● 2	● 2	● 1	● 1
Sodium	ppm	● 2	● 2	● 2	● 0
Potassium	ppm	● 14	● 0	● 1	● <1



## WEAR METALS

Iron	ppm	● 15	● 16	● 18	● 11
Copper	ppm	● 4	● 3	● 3	● 2
Lead	ppm	● <1	● 1	● <1	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● <1	● <1	● <1	● <1
Molybdenum	ppm	● 4	● 3	<1	<1
Nickel	ppm	● 0	● <1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	● 0	● <1	<1	<1
Vanadium	ppm	0	0	0	0



## ADDITIVES

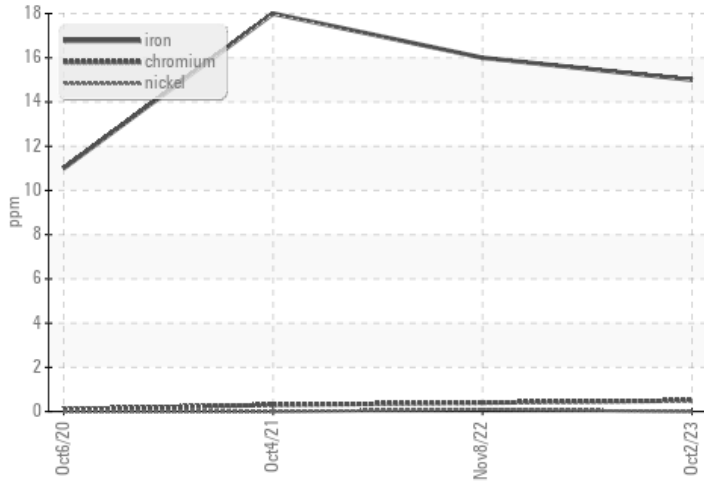
Calcium	ppm	1373	1192	1264	1305
Magnesium	ppm	● 14	● 11	7	7
Zinc	ppm	● 754	● 689	677	693
Phosphorus	ppm	● 648	● 663	622	621
Barium	ppm	● <1	● 0	<1	<1
Boron	ppm	23	19	4	3

Depot: ACILAC  
 Unique No: 5658417  
 Signed: Kevin Marson  
 Report Date: 17 Oct 2023

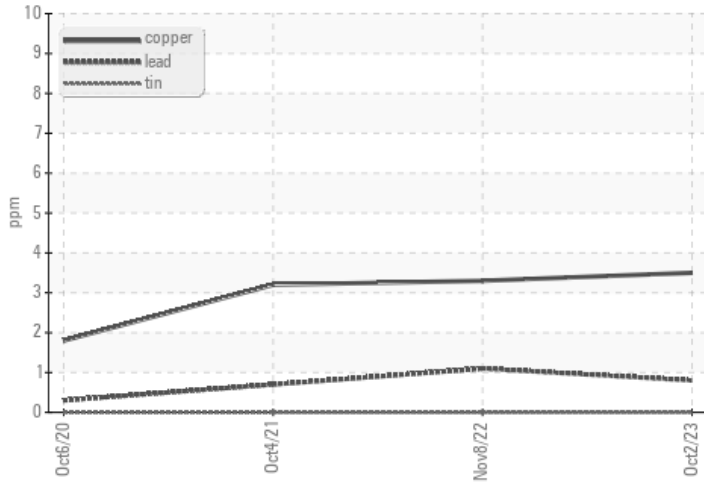


### GRAPHS

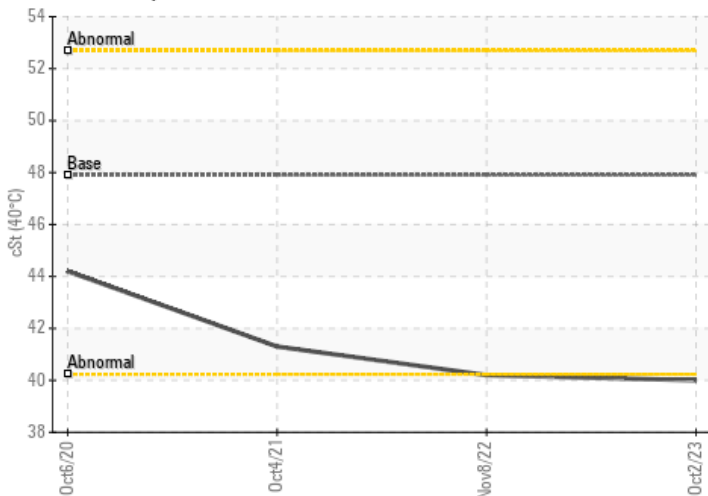
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



Particle Filter (Magn: 100 x)

