

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(344091)] LIEBHERR LH40M 120553-1215 - Hydraulic System

Sample No: LH0281070

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Sample Information

Sample Number	LH0281070	LH0193888	LH0260395	LH0193861
Sample Date	06 Jun 2024	13 Feb 2024	16 Aug 2023	21 Feb 2023
Machine Hours	4500	4086	3448	2835
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**Goodies Trading Ltd.**  
8150 Aitken Road  
Chilliwack, BC  
CA V2R 4H5  
Contact: Service Manager



#### Oil Condition

Visc @ 40°C	cSt	41.7	41.8	41.7	41.5
Acid Number (AN)	mg KOH/g	---	---	---	0.78

T:  
F:



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1076	689	2963	580
Particles >6µm		214	108	700	100
Particles >14µm		10	11	37	11
ISO 4406:1999 (c)		17/15/10	17/14/11	19/17/12	16/14/11
Silicon	ppm	0	<1	1	1
Sodium	ppm	<1	<1	1	<1
Potassium	ppm	<1	<1	<1	<1

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. 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.



#### Wear Metals

Iron	ppm	24	19	15	12
Copper	ppm	4	4	3	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	1	1	1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

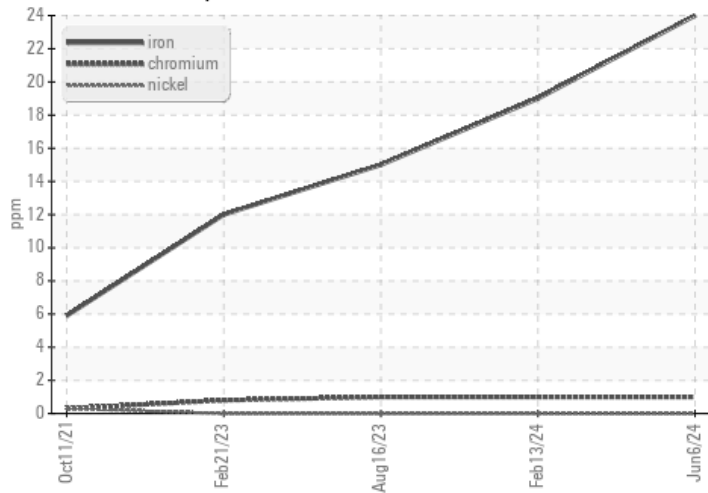
Calcium	ppm	460	493	600	745
Magnesium	ppm	3	3	4	4
Zinc	ppm	513	517	556	559
Phosphorus	ppm	416	431	483	514
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	1

**Depot:** GOOCHI  
**Unique No:** 5798978  
**Signed:** Kevin Marson  
**Report Date:** 13 Jun 2024

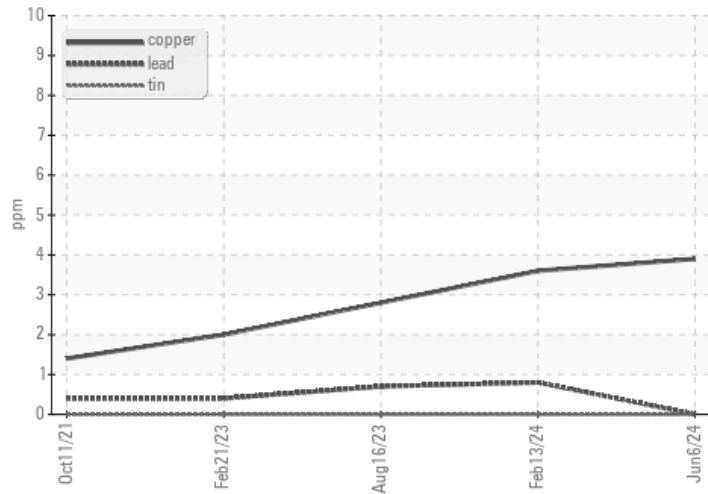


### Graphs

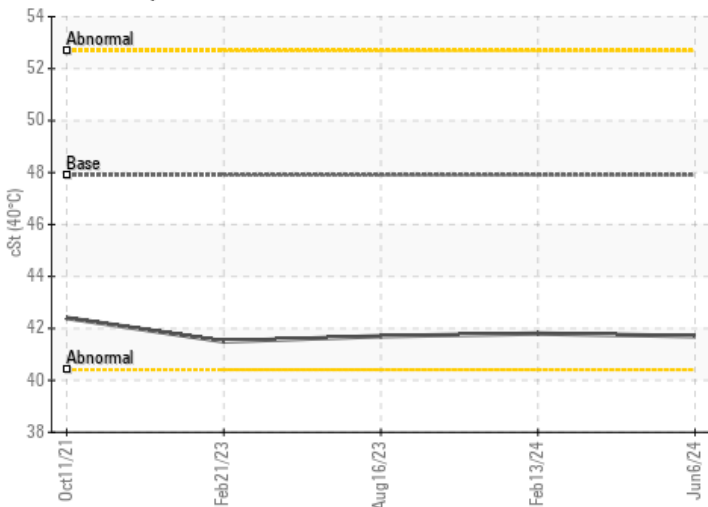
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

