

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(355228) [50241076]] LIEBHERR LH60M 114198-1217 - Hydraulic

Sample No: LH0290534

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



### Sample Information

Sample Number	LH0290534	LH0286459	LH0280990	---
Sample Date	11 Jul 2024	09 Jun 2024	08 Feb 2024	---
Machine Hours	10000	9765	8700	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

**AltaSteel**  
 9401 34 St NW  
 Edmonton, AB  
 CA T6B 2X6  
 Contact: Richard Bailey  
 richard.bailey@altasteel.com  
 T:  
 F:



### Oil Condition

Visc @ 40°C	cSt	40.7	40.7	41.0	---
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### Contamination

Water	%	NEG	NEG	0.061	---
Particles >4µm		2157	11179	40140	---
Particles >6µm		787	3861	15161	---
Particles >14µm		79	453	1223	---
ISO 4406:1999 (c)		18/17/13	21/19/16	23/21/17	---
Silicon	ppm	2	1	<1	---
Sodium	ppm	2	2	2	---
Potassium	ppm	<1	<1	0	---

### 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	48	47	41	---
Copper	ppm	13	13	13	---
Lead	ppm	<1	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	0	---
Chromium	ppm	4	4	2	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	0	---
Vanadium	ppm	0	0	0	---



### Additives

Calcium	ppm	382	398	412	---
Magnesium	ppm	2	2	2	---
Zinc	ppm	749	779	784	---
Phosphorus	ppm	608	614	613	---
Barium	ppm	<1	<1	0	---
Boron	ppm	<1	<1	0	---

**Depot:** ALT940EDM  
**Unique No:** 5814257  
**Signed:** Kevin Marson  
**Report Date:** 19 Jul 2024

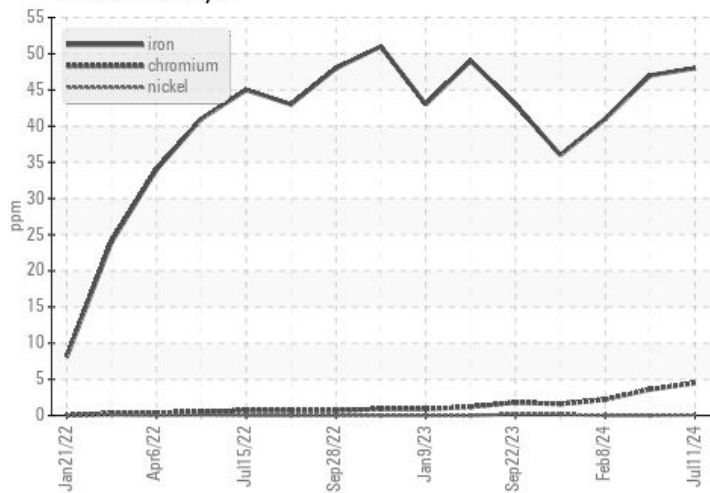
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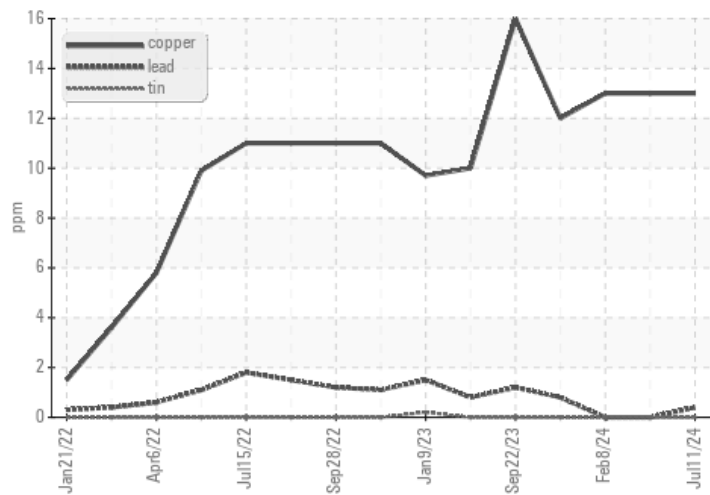


### Graphs

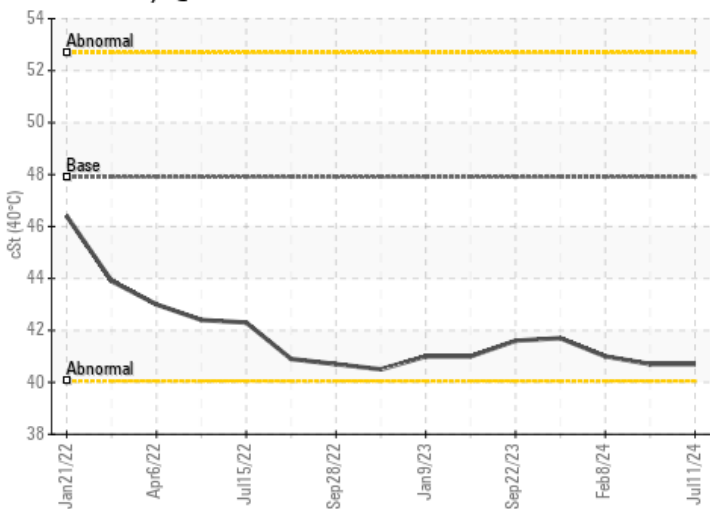
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

