

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R918LC 047212-1721- Hydraulic System

Sample No: LH0286416

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Sample Information

Sample Number	LH0286416	LH0284031	LH0221996	---
Sample Date	15 Jun 2024	01 Mar 2024	11 Mar 2022	---
Machine Hours	3540	3066	1505	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

**WESTERRA ENTERPRISES INC.**  
 33171 2ND AVENUE  
 MISSION, BC  
 CA V2V 6T8  
 Contact: Service Manager



#### Oil Condition

Visc @ 40°C	cSt	41.9	42.3	43.6	---
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T:  
F:



#### Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		267	4066	6112	---
Particles >6µm		38	845	210	---
Particles >14µm		4	42	17	---
ISO 4406:1999 (c)		15/12/9	19/17/13	20/15/11	---
Silicon	ppm	6	6	6	---
Sodium	ppm	2	2	1	---
Potassium	ppm	<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	10	10	8	---
Copper	ppm	6	6	4	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



#### Additives

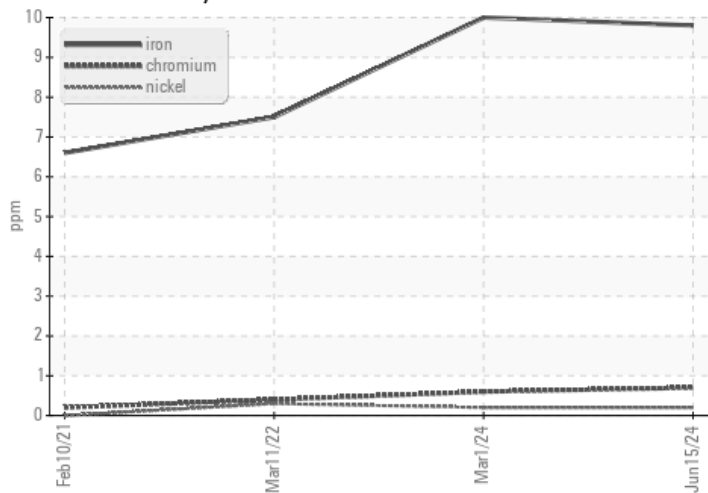
Calcium	ppm	943	961	1085	---
Magnesium	ppm	5	5	6	---
Zinc	ppm	655	653	721	---
Phosphorus	ppm	561	568	628	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	<1	<1	---

Depot: SUMMIS  
 Unique No: 5814265  
 Signed: Kevin Marson  
 Report Date: 21 Jul 2024

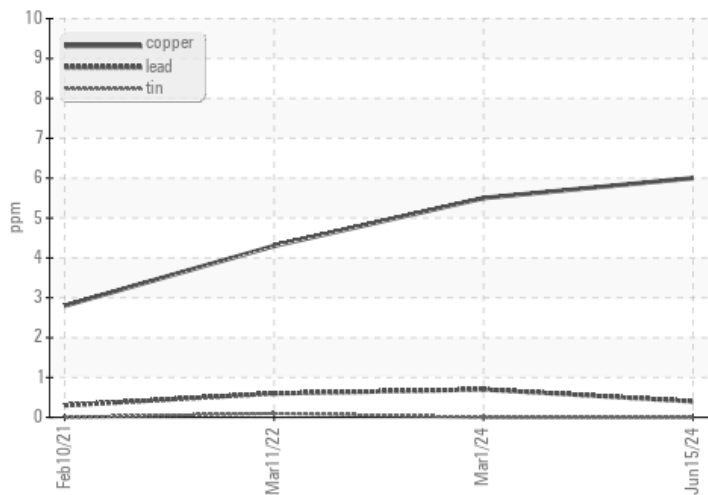


### Graphs

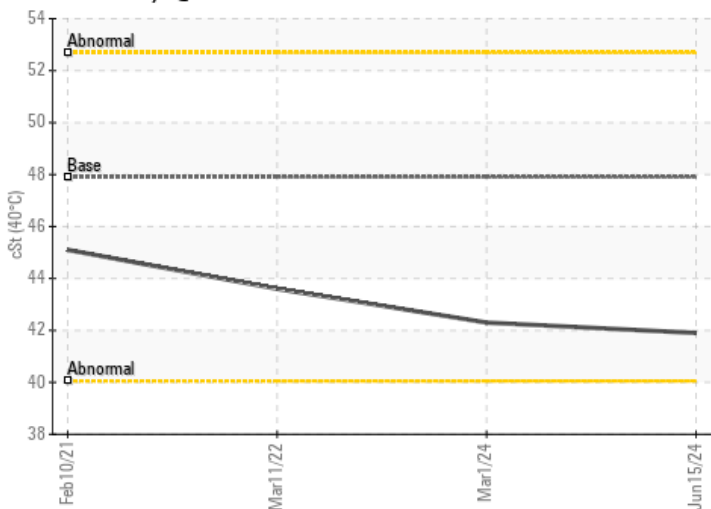
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

