

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 146891-1217 - Hydraulic System

Sample No: LH0271811

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



**RICHMOND STEEL RECYCLING**  
 11760 MITCHELL ROAD  
 RICHMOND, BC  
 CA V6V 1V8  
 Contact: Aaron Kaetler  
 AKaetler@richmondsteel.ca  
 T:  
 F: (604)324-8617



#### Sample Information

Sample Number	LH0271811	LH0281175	---	---
Sample Date	24 May 2024	22 Dec 2023	---	---
Machine Hours	1000	519	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



#### Oil Condition

Visc @ 40°C	cSt	47.0	44.8	---	---
Acid Number (AN)	mg KOH/g	1.01	---	---	---



#### Contamination

Water	%	NEG	NEG	---	---
Particles >4µm		5287	909	---	---
Particles >6µm		1117	183	---	---
Particles >14µm		60	9	---	---
ISO 4406:1999 (c)		20/17/13	17/15/10	---	---
Silicon	ppm	3	3	---	---
Sodium	ppm	32	1	---	---
Potassium	ppm	49	<1	---	---



#### Wear Metals

Iron	ppm	12	11	---	---
Copper	ppm	5	3	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	1	0	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	0	0	---	---



#### Additives

Calcium	ppm	1100	1375	---	---
Magnesium	ppm	4	4	---	---
Zinc	ppm	624	696	---	---
Phosphorus	ppm	591	620	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	2	0	---	---

#### Diagnosis

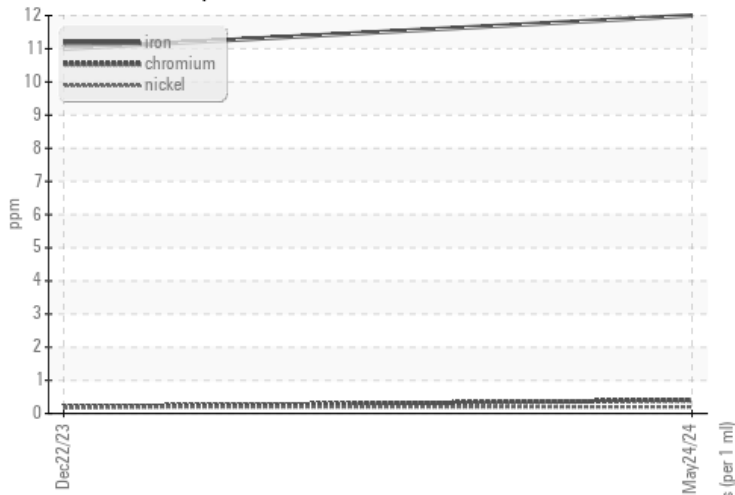
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: RIC117RIC  
 Unique No: 5799894  
 Signed: Kevin Marson  
 Report Date: 18 Jun 2024

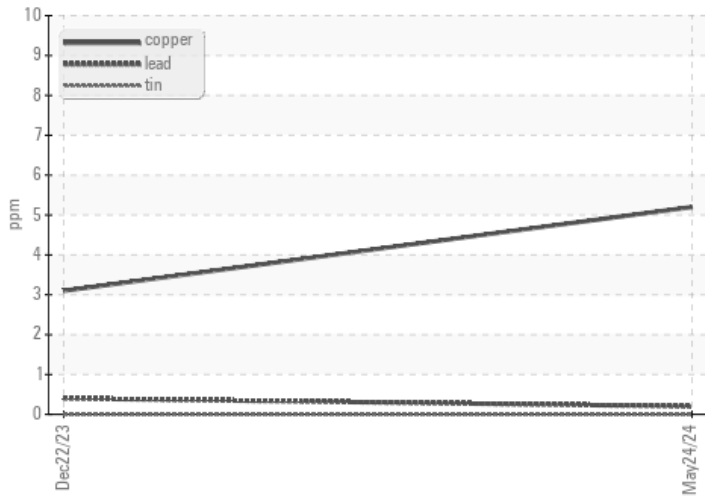


### Graphs

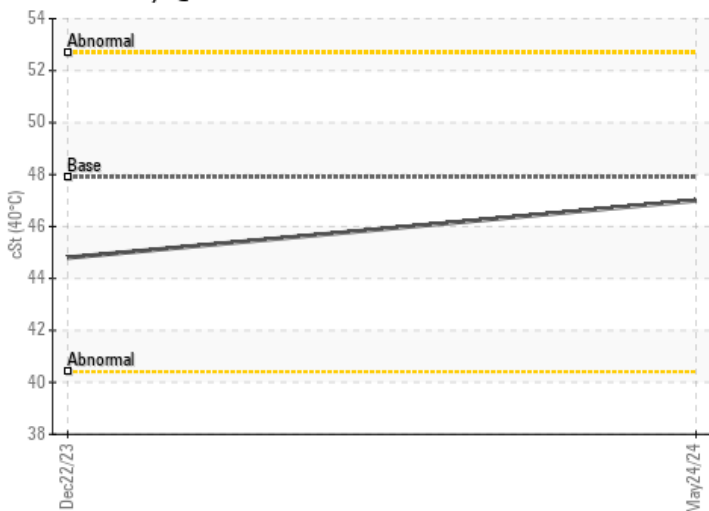
#### Ferrous Alloys



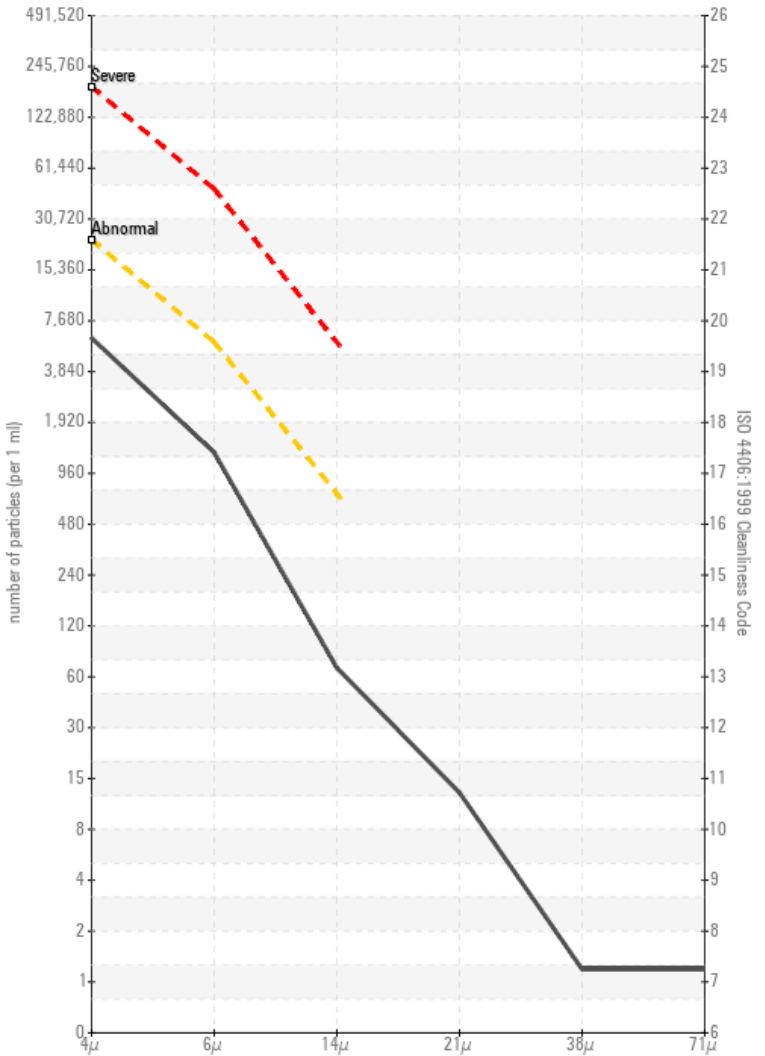
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

