

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 146891-1217 - Hydraulic System

Sample No: LH0281175

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	LH0281175	---	---	---
Sample Date	22 Dec 2023	---	---	---
Machine Hours	519	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 44.8	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 909	---	---	---
Particles >6µm		● 183	---	---	---
Particles >14µm		● 9	---	---	---
ISO 4406:1999 (c)		17/15/10	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● <1	---	---	---



#### WEAR METALS

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



#### ADDITIVES

Calcium	ppm	1375	---	---	---
Magnesium	ppm	● 4	---	---	---
Zinc	ppm	● 696	---	---	---
Phosphorus	ppm	● 620	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

#### Diagnosis

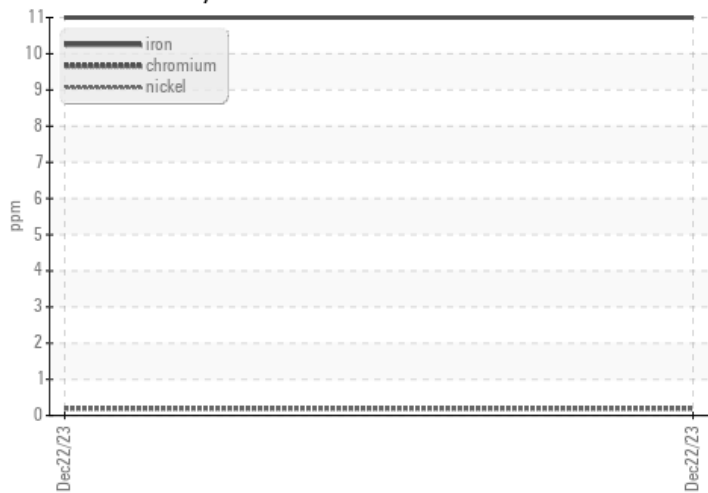
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate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

**Depot:** RIC117RIC  
**Unique No:** 5708246  
**Signed:** Kevin Marson  
**Report Date:** 11 Jan 2024

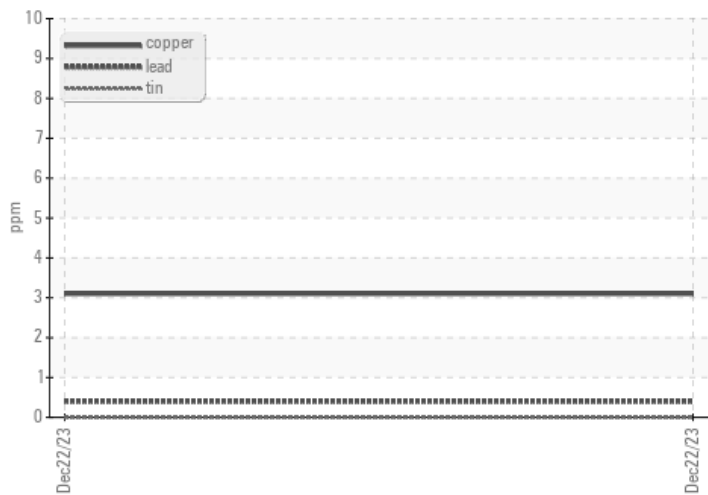


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

