

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 142743-1217 - Hydraulic System

Sample No: LH0249560

Oil Type: AW HYDRAULIC OIL ISO 68



**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	LH0249560	---	---	---
Sample Date	12 Jul 2023	---	---	---
Machine Hours	1065	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	45.6	---	---	---
Acid Number (AN)	mg KOH/g	1.52	---	---	---



#### CONTAMINATION

Particles >4µm		1213	---	---	---
Particles >6µm		350	---	---	---
Particles >14µm		33	---	---	---
ISO 4406:1999 (c)		17/16/12	---	---	---
Silicon	ppm	3	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	1	---	---	---



#### WEAR METALS

Iron	ppm	9	---	---	---
Copper	ppm	3	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	1130	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	652	---	---	---
Phosphorus	ppm	607	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

#### Diagnosis

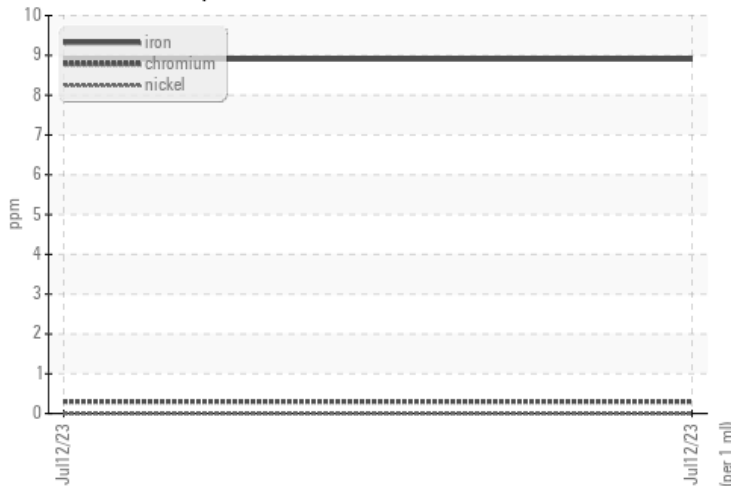
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within SAE 10W range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: RIC117RIC  
 Unique No: 5617463  
 Signed: Kevin Marson  
 Report Date: 28 Jul 2023

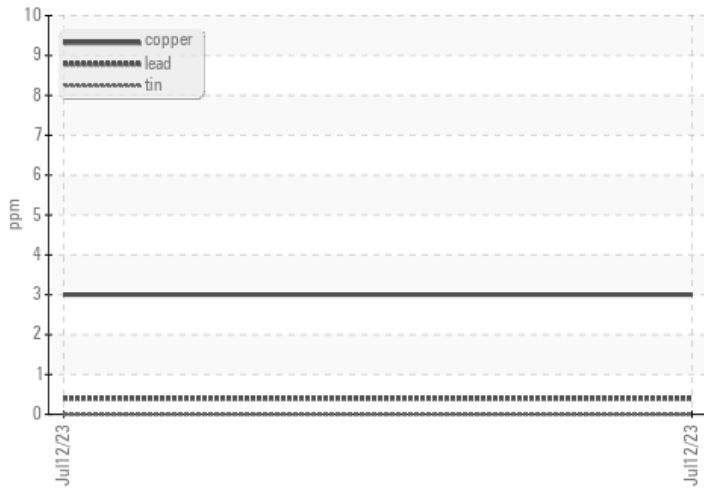


### GRAPHS

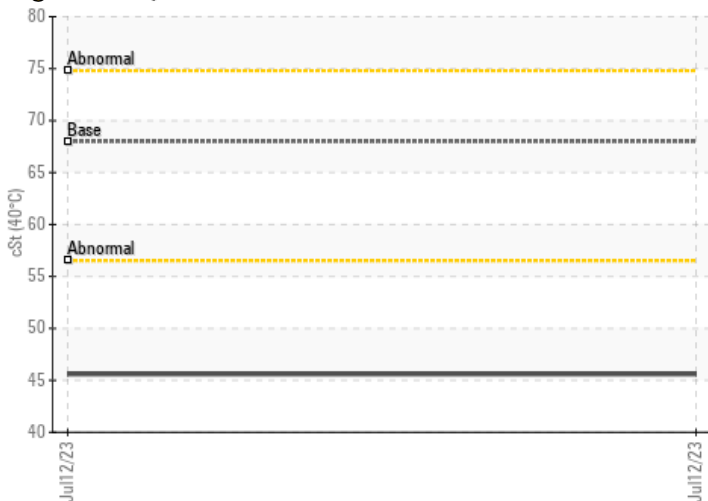
#### Ferrous Alloys



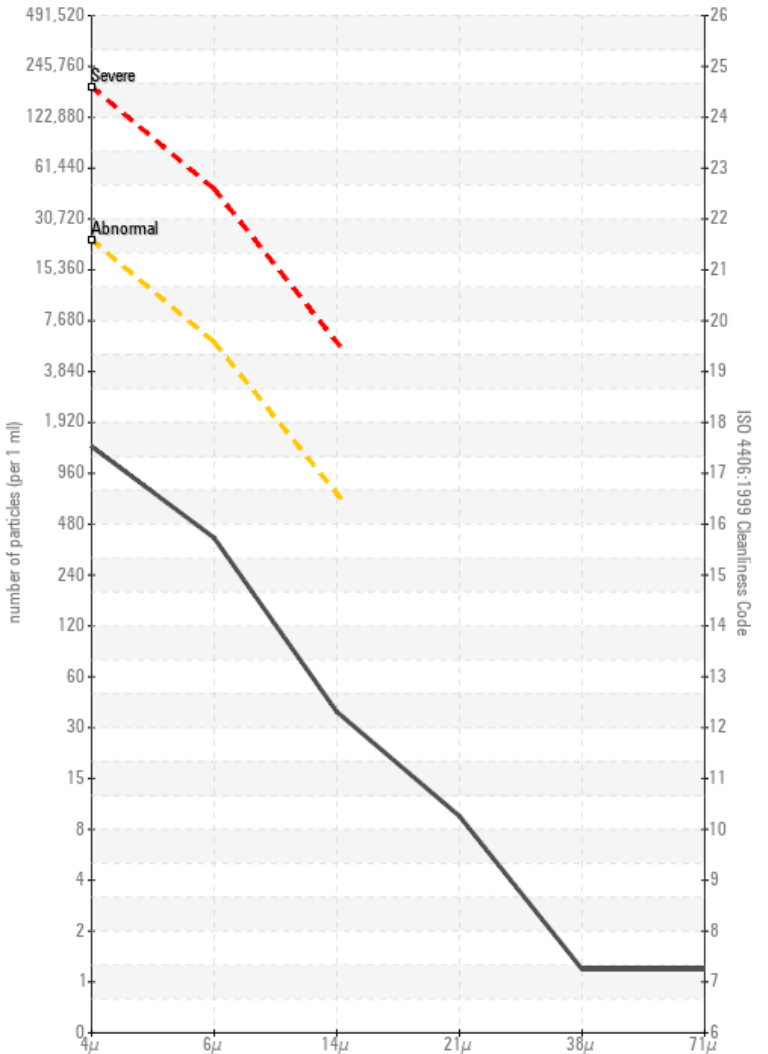
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

