

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145585-1217 - Hydraulic System

Sample No: LH0259481

Oil Type: PETRO CANADA HYDREX AW 68

RICHMOND STEEL RECYCLING

11760 MITCHELL ROAD

RICHMOND, BC

CA V6V 1V8

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T:

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Diagnosis

We advise that you check for visible metal particles in the oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Light concentration of visible metal present. 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 ISO 46 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid.



SAMPLE INFORMATION

Sample Number		LH0259481	---	---	---
Sample Date		23 Aug 2023	---	---	---
Machine Hours		1112	---	---	---
Oil Hours		0	---	---	---
Oil Changed		Not Changd	---	---	---
Sample Status		ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 50.2	---	---	---
Acid Number (AN)	mg KOH/g	● 1.04	---	---	---



CONTAMINATION

Particles >4µm		● 3334	---	---	---
Particles >6µm		● 984	---	---	---
Particles >14µm		● 89	---	---	---
ISO 4406:1999 (c)		19/17/14	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● <1	---	---	---



WEAR METALS

Iron	ppm	● 12	---	---	---
Copper	ppm	● 4	---	---	---
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

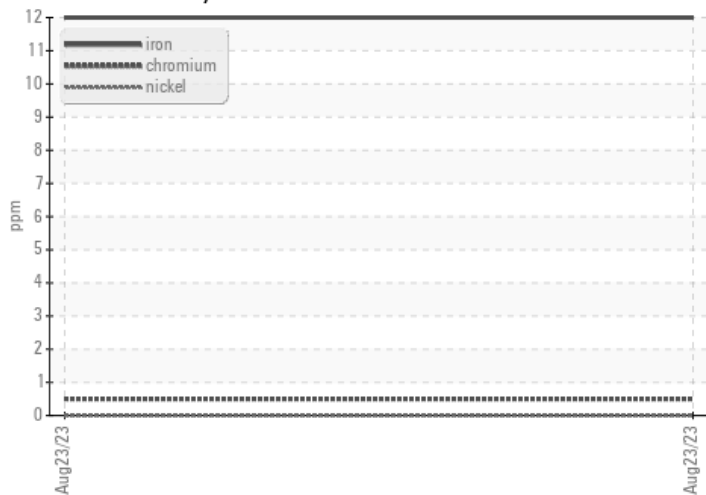
Calcium	ppm	822	---	---	---
Magnesium	ppm	● 3	---	---	---
Zinc	ppm	● 609	---	---	---
Phosphorus	ppm	● 553	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● <1	---	---	---

Depot: RIC117RIC
 Unique No: 5642509
 Signed: Kevin Marson
 Report Date: 14 Sep 2023

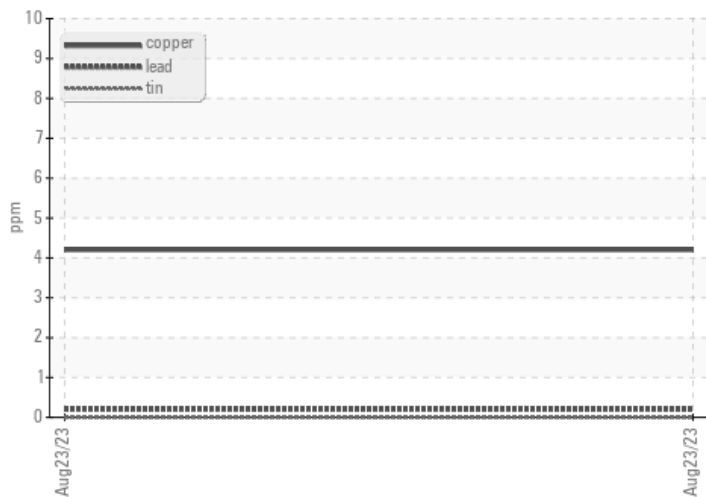


GRAPHS

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C



Particle Filter (Magn: 100 x)



Acid Number

