

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR CR06 - Hydraulic System

Sample No: LH0260567

Oil Type: PETRO CANADA ENVIRON MV 46



#### Sample Information

Sample Number	LH0260567	LH0260633	LH0250516	LH0250488
Sample Date	26 Feb 2024	29 Nov 2023	12 Jul 2023	28 Apr 2023
Machine Hours	18274	17987	17521	17279
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**Radius Recycling Canada Ltd.**

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#### Oil Condition

Visc @ 40°C	cSt	43.7	41.2	42.1	42.2
		●	●	●	●



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 4725	● 2558	● 1348	● 4933
Particles >6µm		● 465	● 170	● 106	● 479
Particles >14µm		● 23	● 7	● 7	● 16
ISO 4406:1999 (c)		19/16/12	19/15/10	18/14/10	19/16/11
Silicon	ppm	● 0	● <1	● <1	● <1
Sodium	ppm	● 2	● 1	● 4	● 5
Potassium	ppm	● <1	● 0	● <1	● 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.



#### Wear Metals

Iron	ppm	● 2	● 2	● 3	● 3
Copper	ppm	● <1	● <1	● 1	● 1
Lead	ppm	● 0	● <1	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 0	● 0	● <1	● <1
Chromium	ppm	● <1	● <1	● 1	● <1
Molybdenum	ppm	● 0	● 0	● <1	● <1
Nickel	ppm	● 0	● <1	● 0	● 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	● 0	● 0	● 0	● 0
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	16	18	● 3	● 1
Magnesium	ppm	● 1	● 1	● <1	● <1
Zinc	ppm	123	129	● 15	● 16
Phosphorus	ppm	● 525	● 540	● 645	● 672
Barium	ppm	● 0	● <1	● 0	● 0
Boron	ppm	● 0	● <1	● <1	● <1

Depot: AMISUR

Unique No: 5760512

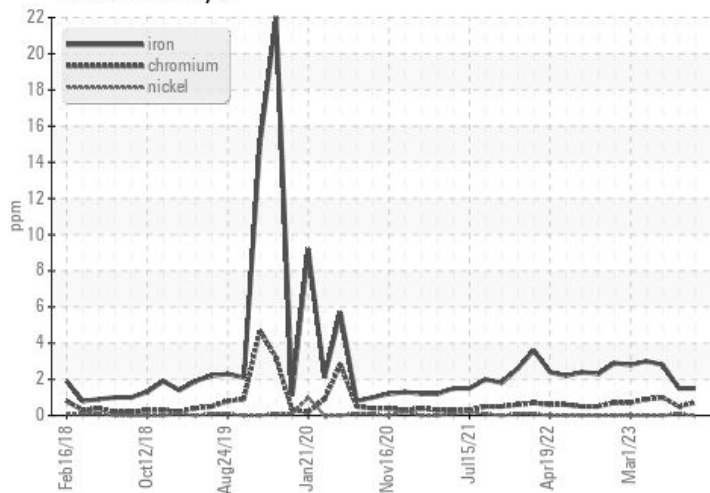
Signed: Kevin Marson

Report Date: 09 Apr 2024

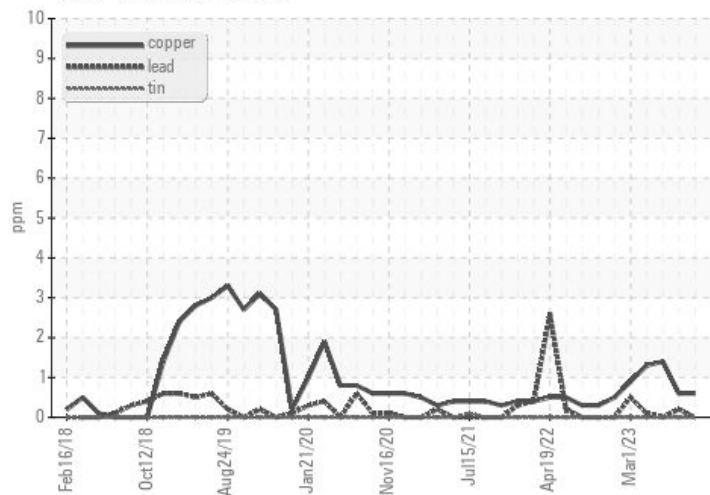


### Graphs

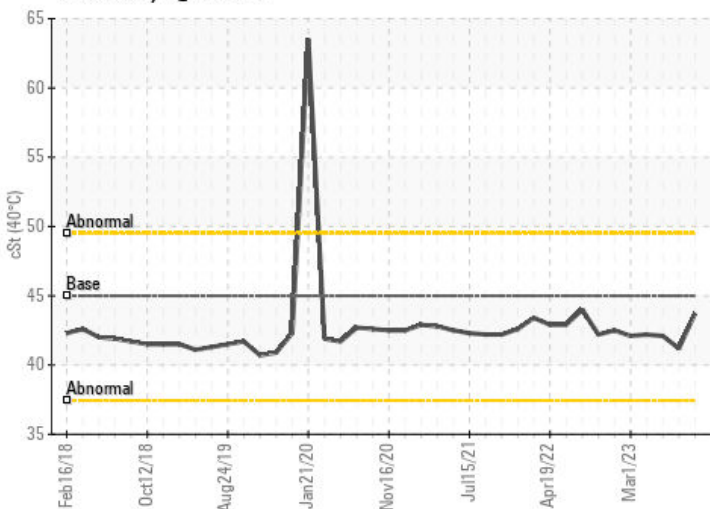
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

