

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR KBC2243CAL3540577 - Hydraulic System

Sample No: LH0250497

Oil Type: PETRO CANADA 10W30



SAMPLE INFORMATION

Sample Number	LH0250497	LH0240806	---	---
Sample Date	28 Jun 2023	27 Oct 2022	---	---
Machine Hours	664	435	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	ATTENTION	---	---

Radius Recycling Canada Ltd.

12195 Musqueam Dr.

Surrey, BC

CA V3V 3T2

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OIL CONDITION

Visc @ 40°C	cSt	45.8	48.2	---	---
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CONTAMINATION

Particles >4µm		15977	18204	---	---
Particles >6µm		1209	1348	---	---
Particles >14µm		29	24	---	---
ISO 4406:1999 (c)		21/17/12	21/18/12	---	---
Silicon	ppm	2	4	---	---
Sodium	ppm	<1	1	---	---
Potassium	ppm	2	2	---	---

Diagnosis

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. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	4	---	---
Copper	ppm	6	6	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	65	90	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	2432	3531	---	---
Magnesium	ppm	11	15	---	---
Zinc	ppm	811	1105	---	---
Phosphorus	ppm	996	1146	---	---
Barium	ppm	<1	<1	---	---
Boron	ppm	36	49	---	---

Depot: AMISUR

Unique No: 5629632

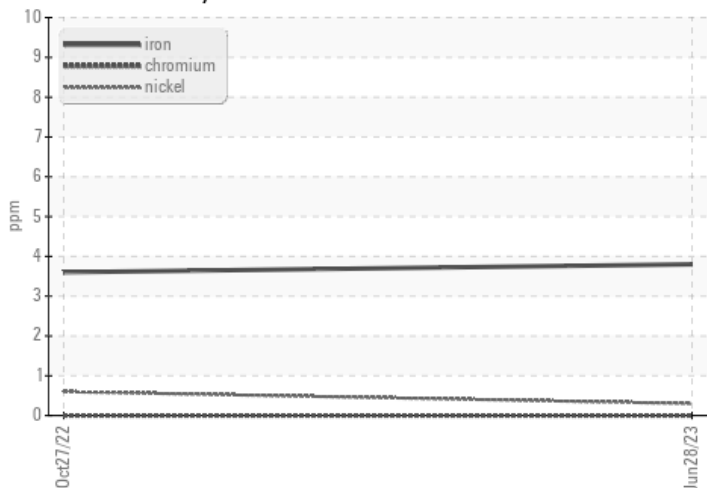
Signed: Kevin Marson

Report Date: 18 Aug 2023

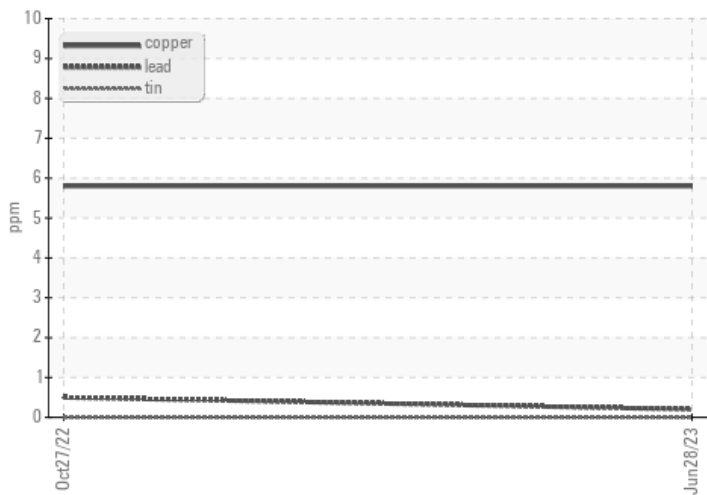


GRAPHS

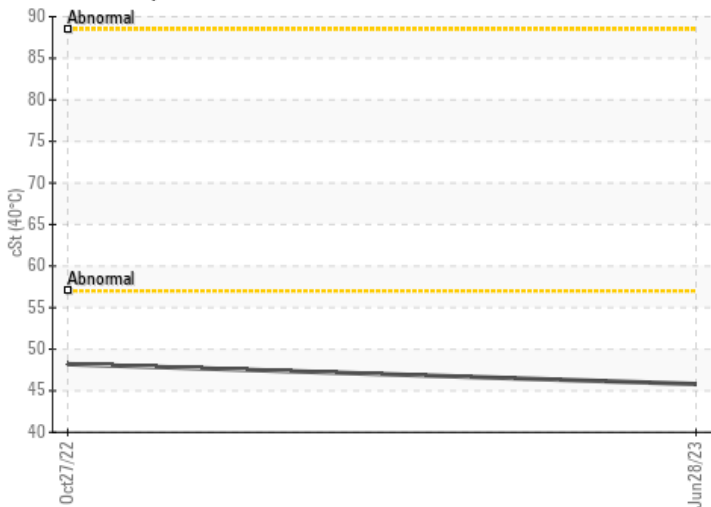
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

