

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR KBC2243CAL3540577 - Hydraulic System

Sample No: LH0284108

Oil Type: PETRO CANADA HYDREX MV 46



Sample Information

Sample Number	LH0284108	LH0250497	LH0240806	---
Sample Date	21 Mar 2024	28 Jun 2023	27 Oct 2022	---
Machine Hours	889	664	435	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

Radius Recycling Canada Ltd.

12195 Musqueam Dr.

Surrey, BC

CA V3V 3T2

Contact: Chris Trinkunas

ctrinkunas@rdus.com

T:

F: (604)580-1922



Oil Condition

Visc @ 40°C	cSt	45.2	45.8	48.2	---



Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		15249	15977	18204	---
Particles >6µm		831	1209	1348	---
Particles >14µm		13	29	24	---
ISO 4406:1999 (c)		21/17/11	21/17/12	21/18/12	---
Silicon	ppm	<1	2	4	---
Sodium	ppm	2	<1	1	---
Potassium	ppm	3	2	2	---

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	5	4	4	---
Copper	ppm	7	6	6	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	1	1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	62	65	90	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	1	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	2169	2432	3531	---
Magnesium	ppm	23	11	15	---
Zinc	ppm	743	811	1105	---
Phosphorus	ppm	882	996	1146	---
Barium	ppm	<1	<1	<1	---
Boron	ppm	34	36	49	---

Depot: AMISUR

Unique No: 5760519

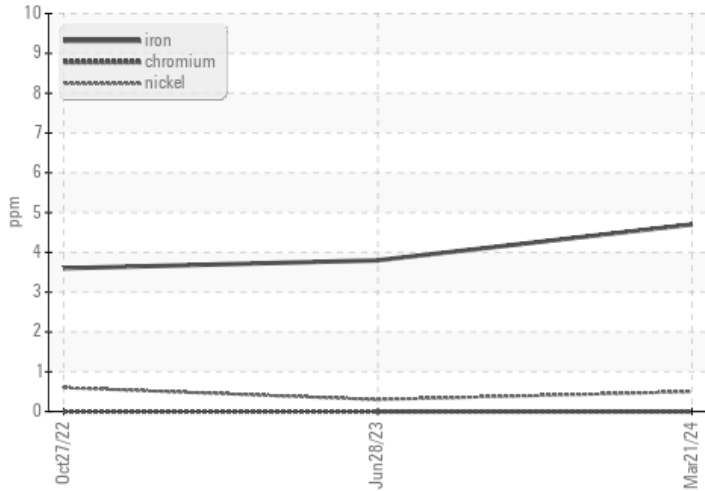
Signed: Kevin Marson

Report Date: 10 Apr 2024

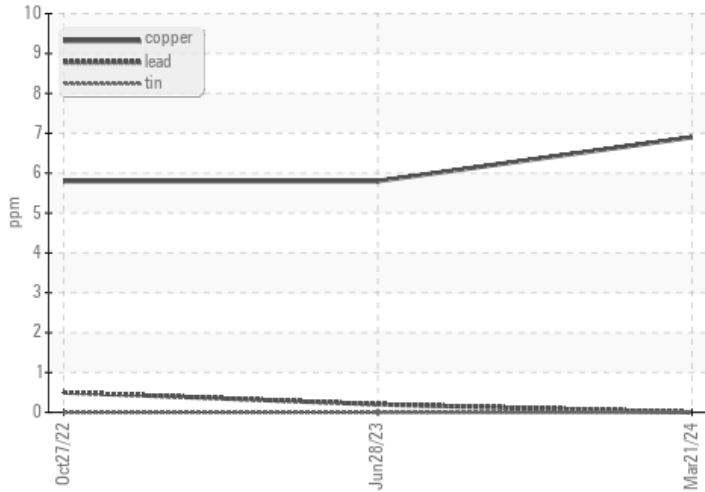


Graphs

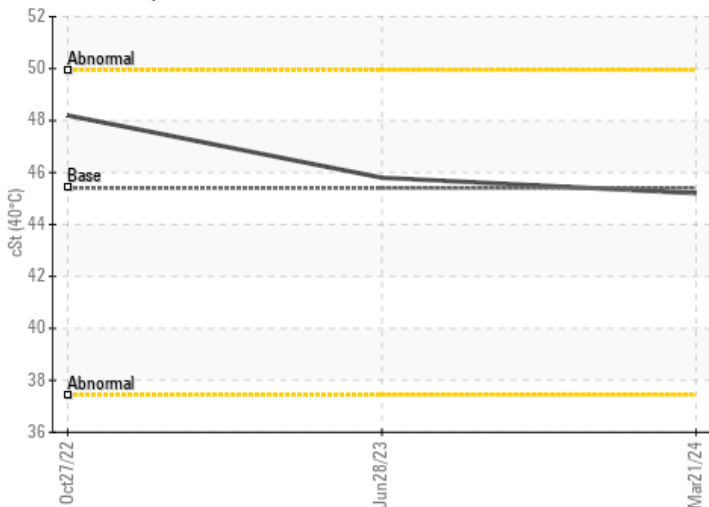
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

