

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934C 039654-1007 - Hydraulic System

Sample No: LH0284100

Oil Type: PETRO CANADA HYDREX MV 46



Sample Information

Sample Number	LH0284100	LH0260571	LH0260507	LH0250521
Sample Date	05 Apr 2024	02 Feb 2024	10 Nov 2023	08 Aug 2023
Machine Hours	19258	19041	18762	18529
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Radius Recycling Canada Ltd.

12195 Musqueam Dr.

Surrey, BC

CA V3V 3T2

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Oil Condition

Visc @ 40°C	cSt	40.3	40.2	38.1	40.9



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2729	13961	8513	12936
Particles >6µm		77	218	114	197
Particles >14µm		7	11	9	8
ISO 4406:1999 (c)		19/13/10	21/15/11	20/14/10	21/15/10
Silicon	ppm	0	<1	<1	<1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	1	0	<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. 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

PQ		---	---	0	---
Iron	ppm	24	26	21	18
Copper	ppm	1	1	1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	4	5	3	2
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	6	8	10	8
Magnesium	ppm	3	3	3	3
Zinc	ppm	10	11	12	12
Phosphorus	ppm	607	615	615	641
Barium	ppm	0	0	<1	0
Boron	ppm	<1	<1	<1	<1

Depot: AMISUR

Unique No: 5773483

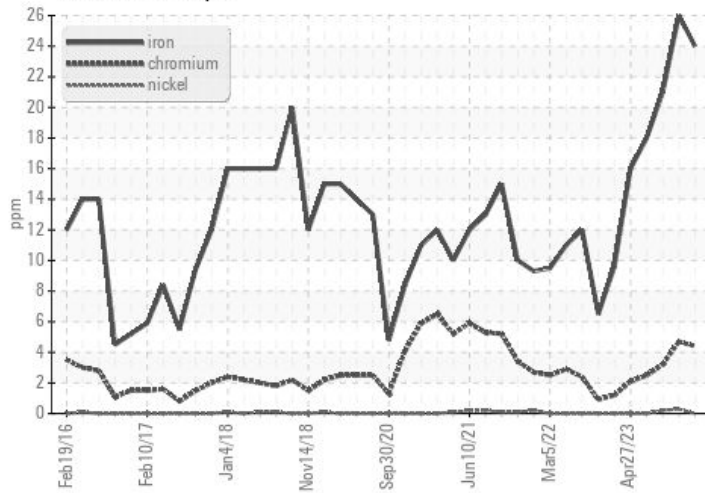
Signed: Wes Davis

Report Date: 01 May 2024

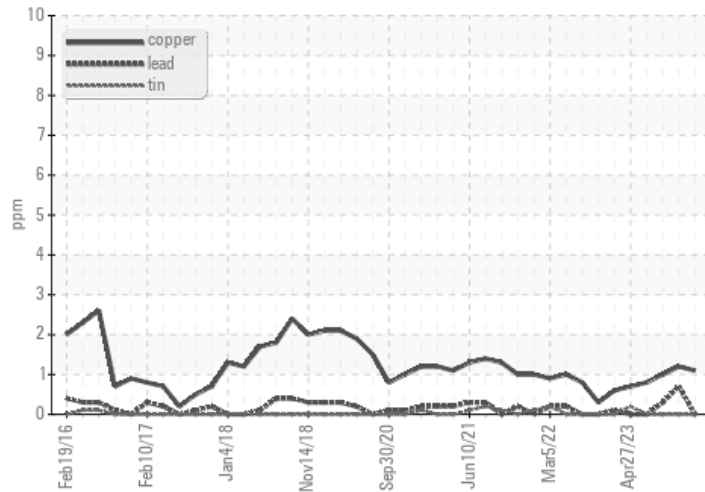


Graphs

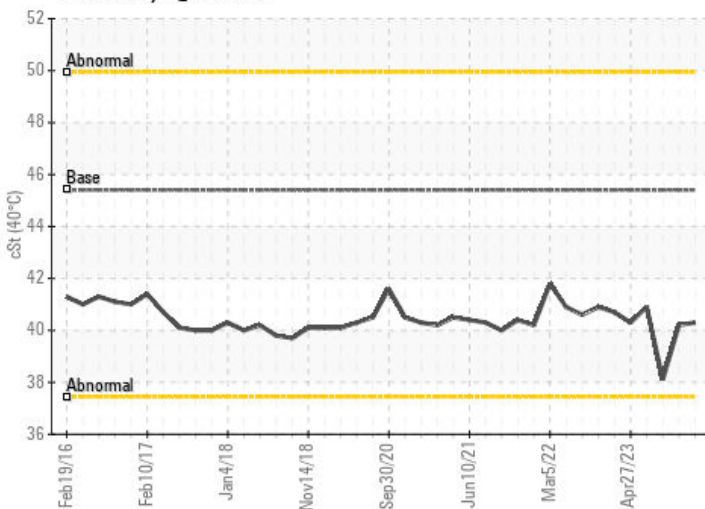
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

