

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934C 039654-1007 - Hydraulic System

Sample No: LH0260571

Oil Type: PETRO CANADA HYDREX MV 46



SAMPLE INFORMATION

Sample Number	LH0260571	LH0260507	LH0250521	LH0250481
Sample Date	02 Feb 2024	10 Nov 2023	08 Aug 2023	27 Apr 2023
Machine Hours	19041	18762	18529	18317
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

Contact: Chris Trinkunas

ctrinkunas@rdus.com

T:

F: (604)580-1922



OIL CONDITION

Visc @ 40°C	cSt	40.2	38.1	40.9	40.3



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		13961	8513	12936	5194
Particles >6µm		218	114	197	112
Particles >14µm		11	9	8	9
ISO 4406:1999 (c)		21/15/11	20/14/10	21/15/10	20/14/10
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	1	0	<1	<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	26	21	18	16
Copper	ppm	1	1	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	5	3	2	2
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	8	10	8	9
Magnesium	ppm	3	3	3	3
Zinc	ppm	11	12	12	11
Phosphorus	ppm	615	615	641	667
Barium	ppm	0	<1	0	0
Boron	ppm	<1	<1	<1	<1

Depot: AMISUR

Unique No: 5735503

Signed: Wes Davis

Report Date: 28 Feb 2024

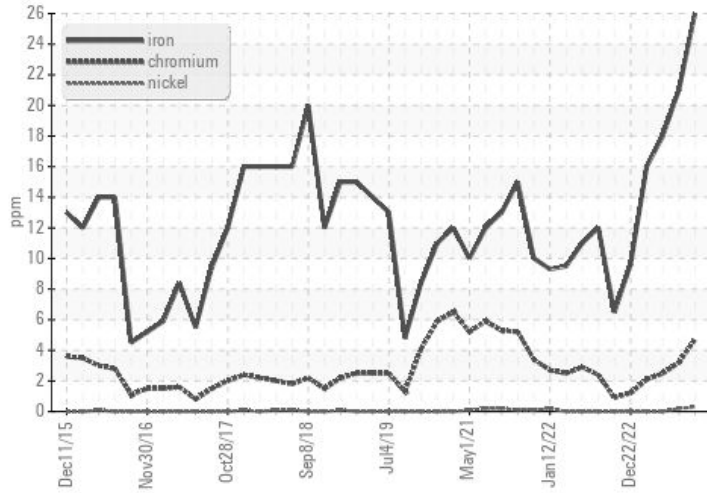
LIEBHERR

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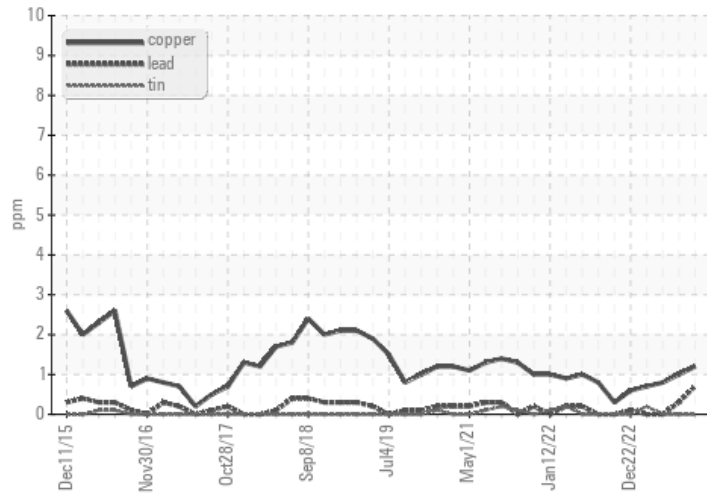


GRAPHS

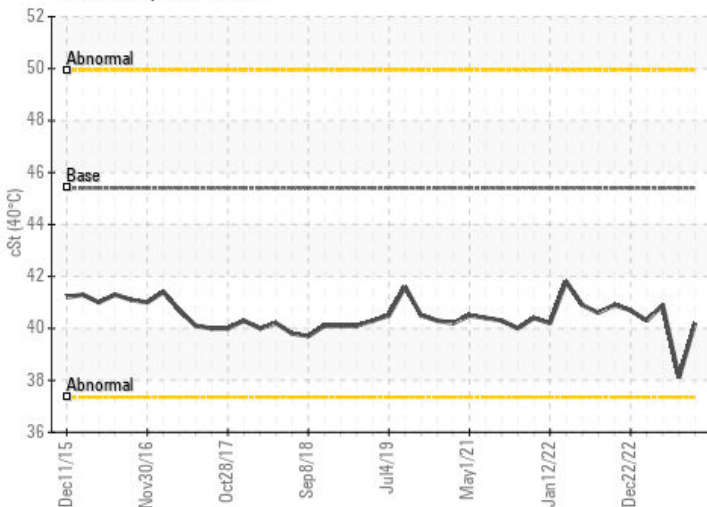
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

