

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934C 039654-1007 - Hydraulic System

Sample No: LH0284087

Oil Type: PETRO CANADA HYDREX MV 46



Radius Recycling Canada Ltd.
 12195 Musqueam Dr.
 Surrey, BC
 CA V3V 3T2
 Contact: Chris Trinkunas
 ctrinkunas@rdus.com
 T:
 F: (604)580-1922



Sample Information

Sample Number	LH0284087	LH0284100	LH0260571	LH0260507
Sample Date	31 May 2024	05 Apr 2024	02 Feb 2024	10 Nov 2023
Machine Hours	19502	19258	19041	18762
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	40.5	40.3	40.2	38.1



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4410	2729	13961	8513
Particles >6µm		85	77	218	114
Particles >14µm		5	7	11	9
ISO 4406:1999 (c)		19/14/10	19/13/10	21/15/11	20/14/10
Silicon	ppm	<1	0	<1	<1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	1	0



Wear Metals

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



Additives

Calcium	ppm	6	6	8	10
Magnesium	ppm	3	3	3	3
Zinc	ppm	11	10	11	12
Phosphorus	ppm	584	607	615	615
Barium	ppm	<1	0	0	<1
Boron	ppm	<1	<1	<1	<1

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA HYDREX MV 46, however, a fluid match indicates that this fluid is ISO 46 Environmental Oil. Please confirm the oil type and grade on your next sample. 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.

Depot: AMISUR
 Unique No: 5813221
 Signed: Kevin Marson
 Report Date: 15 Jul 2024

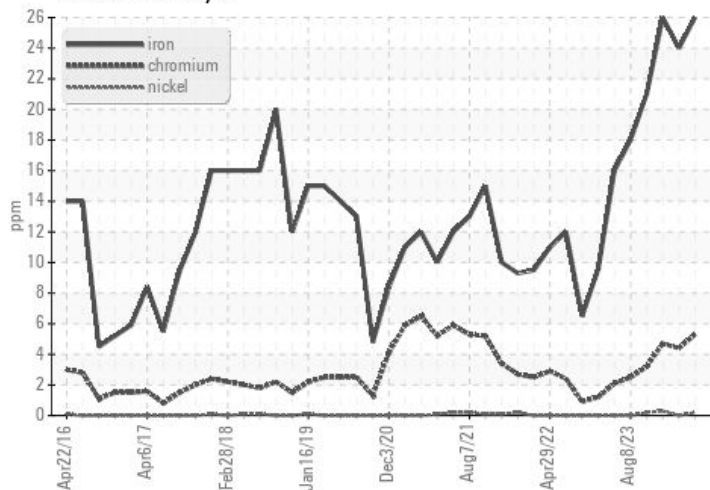
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CONSTRUCTION EQUIPMENT

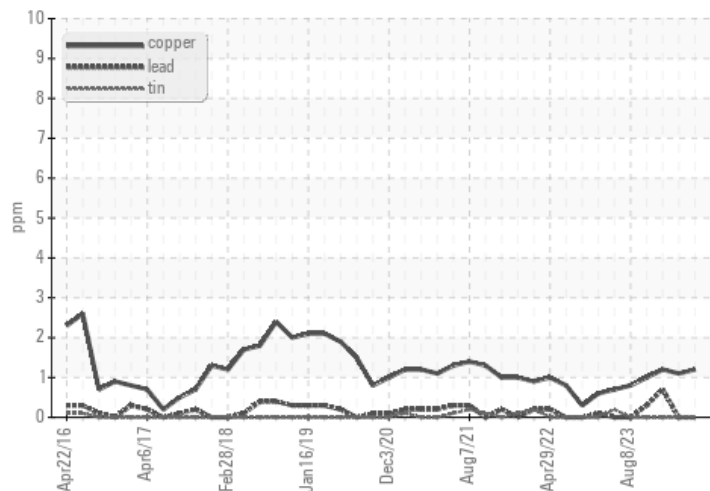


Graphs

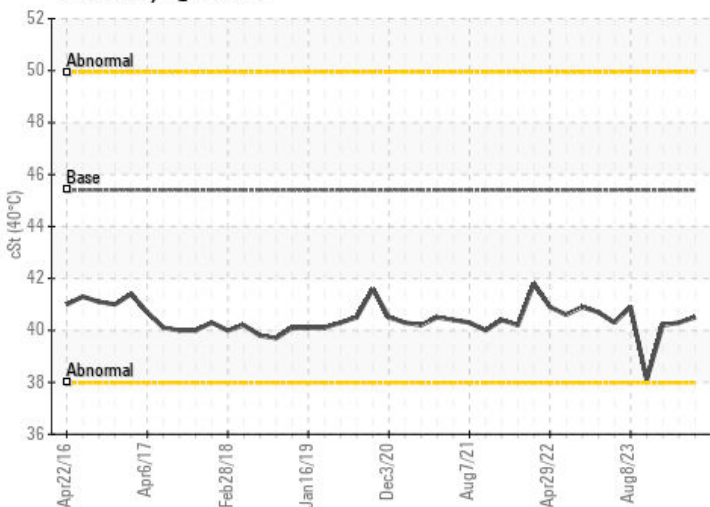
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

