

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C 123315-1528 - Hydraulic System

Sample No: LH0260631

Oil Type: PETRO CANADA ENVIRON MV 46



Radius Recycling Canada Ltd.
 12195 Musqueam Dr.
 Surrey, BC
 CA V3V 3T2
 Contact: Chris Trinkunas
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SAMPLE INFORMATION

Sample Number	LH0260631	LH0180092	LH0250507	LH0250501
Sample Date	19 Dec 2023	25 Oct 2023	16 Oct 2023	29 May 2023
Machine Hours	6627	6378	6107	5590
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION



OIL CONDITION

Visc @ 40°C	cSt	40.2	40.3	40.2	40.3
Acid Number (AN)	mg KOH/g	---	0.17	---	---



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		537	296	147	287
Particles >6µm		124	90	37	70
Particles >14µm		16	10	4	11
ISO 4406:1999 (c)		16/14/11	15/14/10	14/12/9	15/13/11
Silicon	ppm	<1	1	1	1
Sodium	ppm	<1	1	1	1
Potassium	ppm	1	0	0	<1



WEAR METALS

Iron	ppm	21	19	20	17
Copper	ppm	3	4	4	4
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	179	174	189	195
Magnesium	ppm	6	6	6	6
Zinc	ppm	101	104	111	115
Phosphorus	ppm	628	618	601	651
Barium	ppm	0	<1	<1	0
Boron	ppm	<1	1	2	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.

Depot: AMISUR
 Unique No: 5735507
 Signed: Kevin Marson
 Report Date: 28 Feb 2024

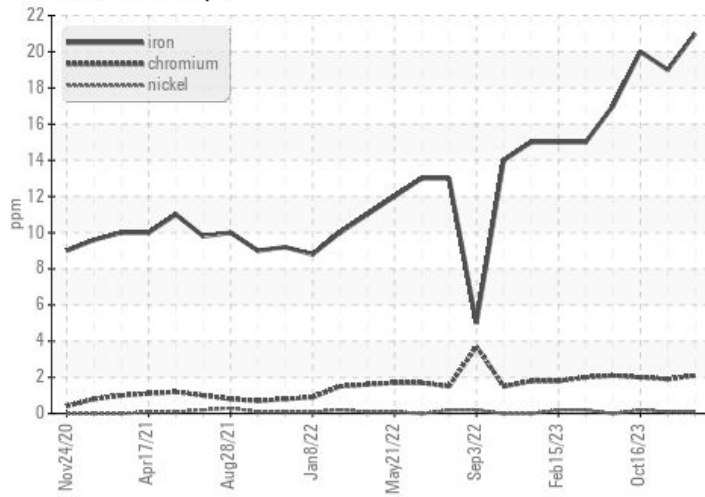
LIEBHERR

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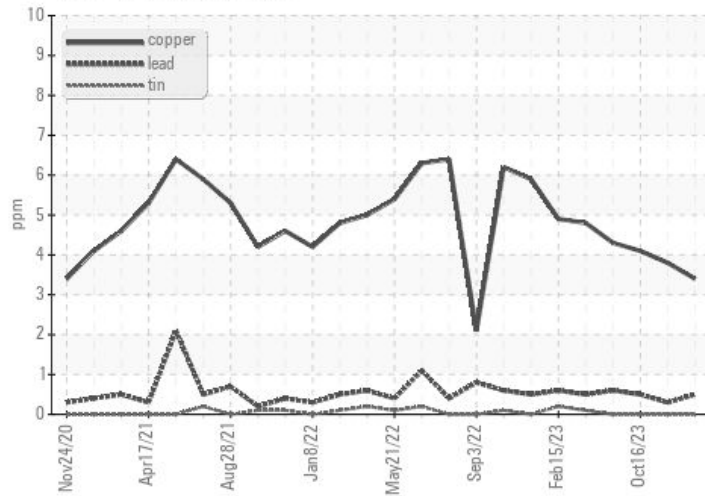


GRAPHS

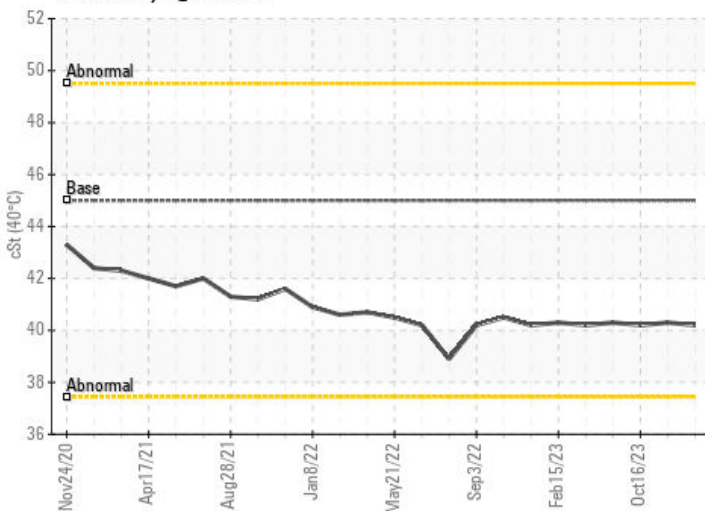
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

