LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH50 WLHZ1216AZK125637 - Hydraulic System

Sample No: LH0260511

Oil Type: PETRO CANADA ENVIRON MV 46

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

Sample Number		**LH0260511**	LH0250515	LH0250502	LH0250480
Sample Date		**24 Oct 2023**	11 Jul 2023	19 May 2023	05 Apr 2023
Machine Hours		**4486**	3597	3709	3437
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ABNORMAL**	ABNORMAL	ABNORMAL	ATTENTION

OIL CONDITION

Visc @ 40°C	cSt	**40.8**	40.8	40.8	41.2

CONTAMINATION

Particles >4µm		**524**	336	329	392
Particles >6µm		**111**	75	57	61
Particles >14µm		**10**	7	5	8
ISO 4406:1999 (c)		**16/14/10**	16/13/10	16/13/10	16/13/10
Silicon	ppm	**2**	2	2	2
Sodium	ppm	**1**	1	1	1
Potassium	ppm	**0**	<1	<1	<1

WEAR METALS

PQ		**0**	0	3	---
Iron	ppm	**52**	53	52	46
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	**1**	1	1	1
Molybdenum	ppm	**0**	<1	<1	0
Nickel	ppm	**0**	0	0	<1
Titanium	ppm	**0**	0	0	0
Silver	ppm	**<1**	0	0	5
Manganese	ppm	**<1**	<1	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**592**	699	755	811
Magnesium	ppm	**4**	4	4	4
Zinc	ppm	**306**	359	385	385
Phosphorus	ppm	**606**	649	642	660
Barium	ppm	**<1**	0	0	0
Boron	ppm	**1**	2	1	1

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: AMISUR
Unique No: 5671531
Signed: Kevin Marson
Report Date: 07 Nov 2023

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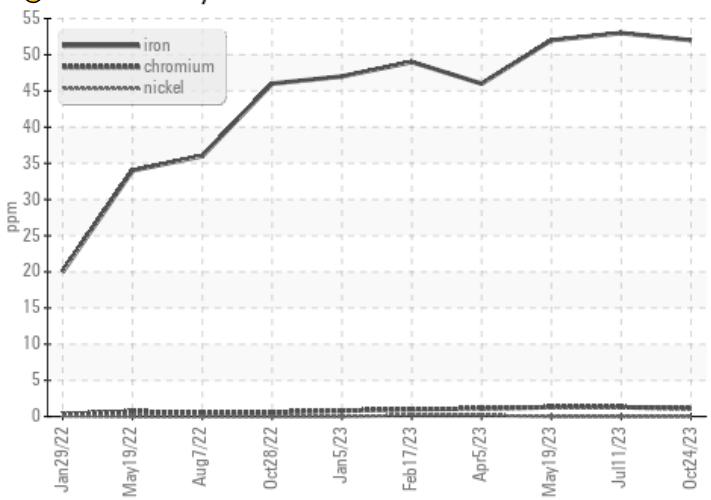
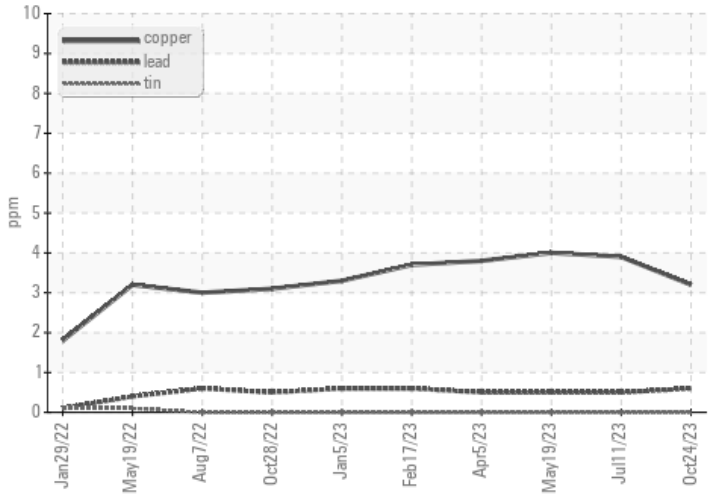
GRAPHS

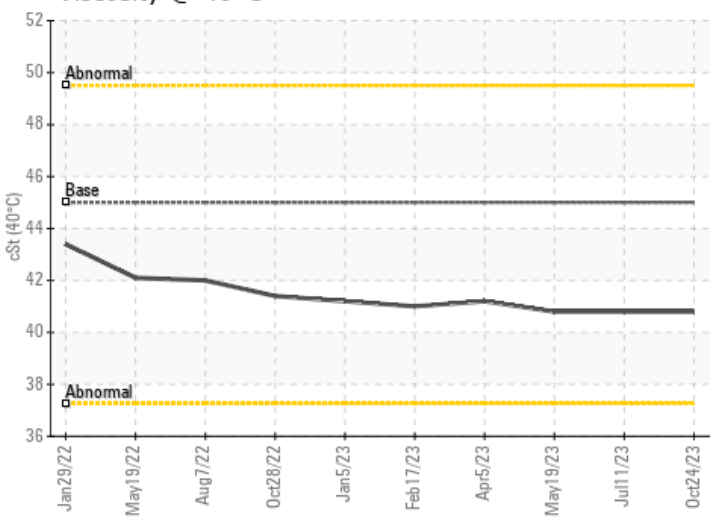
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count