LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH50 WLHZ1216AZK125637 - Hydraulic System

Sample No: LH0284090

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		**LH0284090**	LH0284085	LH0260623	LH0260511
Sample Date		**25 Jun 2024**	13 May 2024	12 Dec 2023	24 Oct 2023
Machine Hours		**5815**	5554	4741	4486
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ATTENTION**	ABNORMAL	ABNORMAL	ABNORMAL

Oil Condition

Visc @ 40°C	cSt	**41.0**	40.4	38.9	40.8

Contamination

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**366**	792	392	524
Particles >6µm		**60**	53	91	111
Particles >14µm		**5**	6	6	10
ISO 4406:1999 (c)		**16/13/10**	17/13/10	16/14/10	16/14/10
Silicon	ppm	**<1**	<1	2	2
Sodium	ppm	**<1**	<1	1	1
Potassium	ppm	**<1**	<1	1	0

Wear Metals

PQ		**---**	0	1	0
Iron	ppm	**35**	52	57	52
Copper	ppm	**1**	3	3	3
Lead	ppm	**0**	0	<1	<1
Tin	ppm	**0**	0	0	0
Aluminum	ppm	**<1**	<1	<1	<1
Chromium	ppm	**1**	2	1	1
Molybdenum	ppm	**0**	0	0	0
Nickel	ppm	**<1**	0	<1	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	<1	<1
Manganese	ppm	**<1**	<1	<1	<1
Vanadium	ppm	**0**	0	0	0

Additives

Calcium	ppm	**248**	484	621	592
Magnesium	ppm	**2**	3	4	4
Zinc	ppm	**128**	248	311	306
Phosphorus	ppm	**589**	581	606	606
Barium	ppm	**0**	0	<1	<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.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: 5813225
Signed: Kevin Marson
Report Date: 15 Jul 2024

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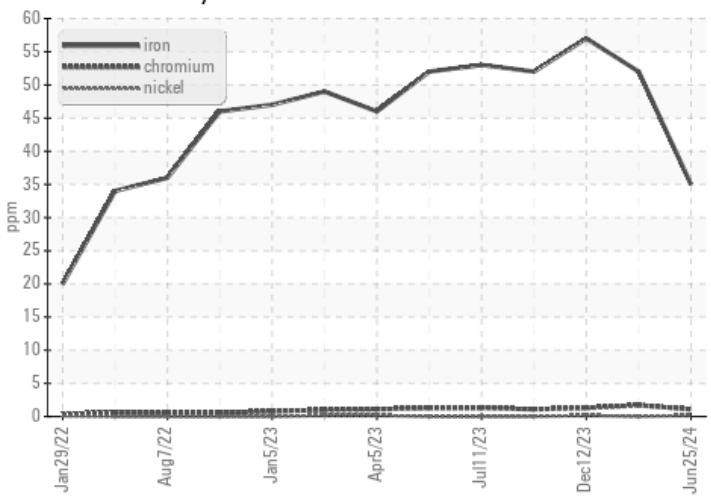
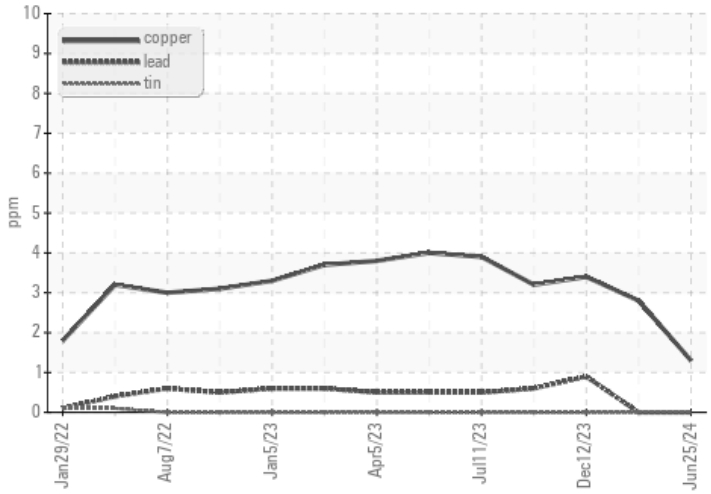
Graphs

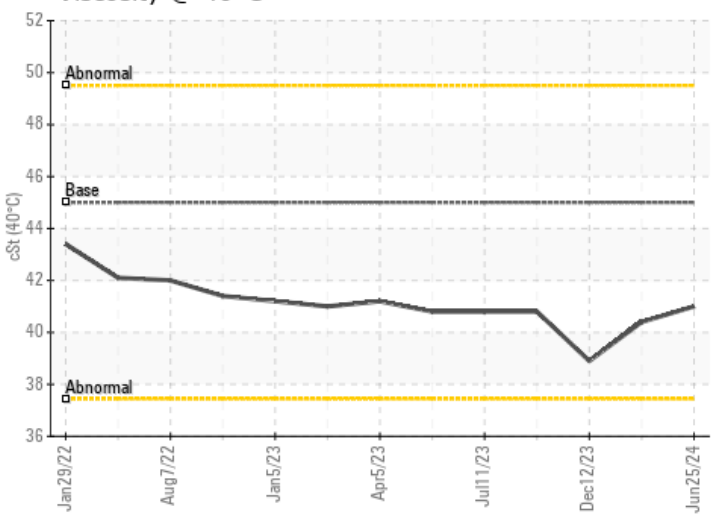
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count