

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR H2B054741 - Hydraulic System

Sample No: LH0284093

Oil Type: PETRO CANADA ENVIRON MV 46



Sample Information

Sample Number	LH0284093	LH0260628	LH0250508	LH0250493
Sample Date	11 Jul 2024	04 Jan 2024	07 Sep 2023	23 May 2023
Machine Hours	4609	4139	3873	3619
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

Radius Recycling Canada Ltd.

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Surrey, BC

CA V3V 3T2

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Oil Condition

Visc @ 40°C	cSt	42.2	42.9	42.9	43.2
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 20536	● 6526	● 33276	● 68916
Particles >6µm		● 160	● 98	● 747	● 2430
Particles >14µm		● 10	● 11	● 8	● 39
ISO 4406:1999 (c)		22/14/10	20/14/11	22/17/10	23/18/12
Silicon	ppm	● 2	● 3	● 4	● 4
Sodium	ppm	● <1	● <1	● 1	● <1
Potassium	ppm	● <1	● 1	● <1	● 1



Wear Metals

Iron	ppm	● 9	● 10	● 11	● 10
Copper	ppm	● 1	● 2	● 3	● 3
Lead	ppm	● 1	● 3	● 3	● 3
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● 1	● <1	● 1
Chromium	ppm	● 4	● 3	● 3	● 3
Molybdenum	ppm	● 0	● 0	● 0	● <1
Nickel	ppm	● <1	● 0	● <1	● 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	● 0	● 0	● 0	● <1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	● 467	● 682	771	● 771
Magnesium	ppm	● 4	● 5	● 5	● 6
Zinc	ppm	● 276	● 392	453	● 460
Phosphorus	ppm	● 543	● 545	● 546	● 578
Barium	ppm	● <1	● <1	● <1	● <1
Boron	ppm	● 1	● <1	● 2	● 1

Diagnosis

We recommend you service the filters on this component. 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. There is a light amount of silt (particulates < 14 microns in size) present in the oil. 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: 5813228

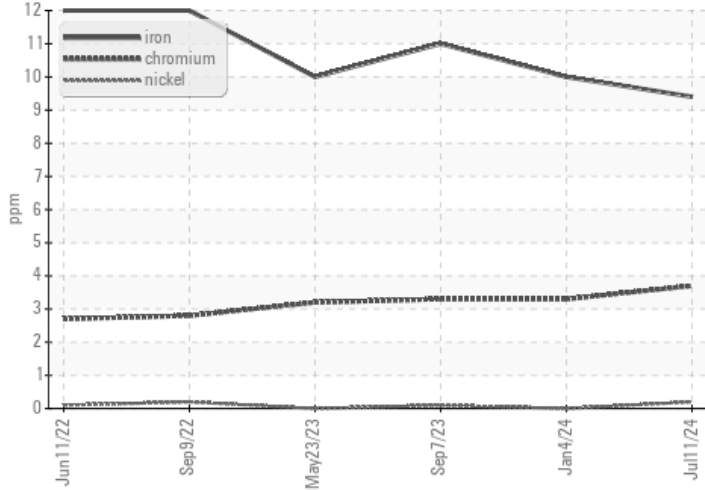
Signed: Kevin Marson

Report Date: 15 Jul 2024

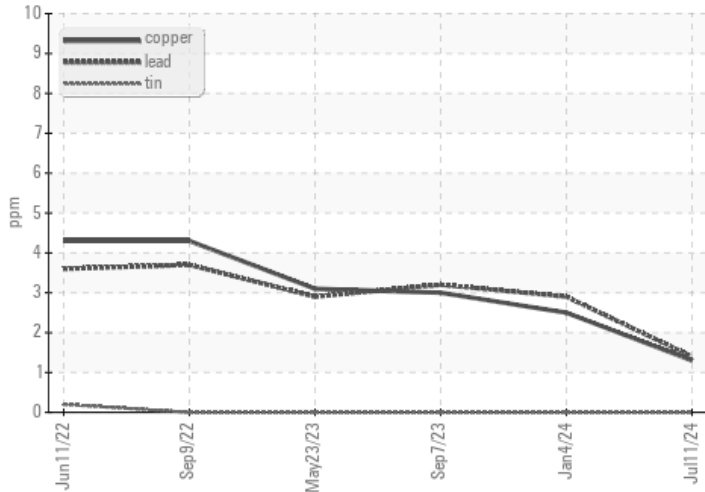


Graphs

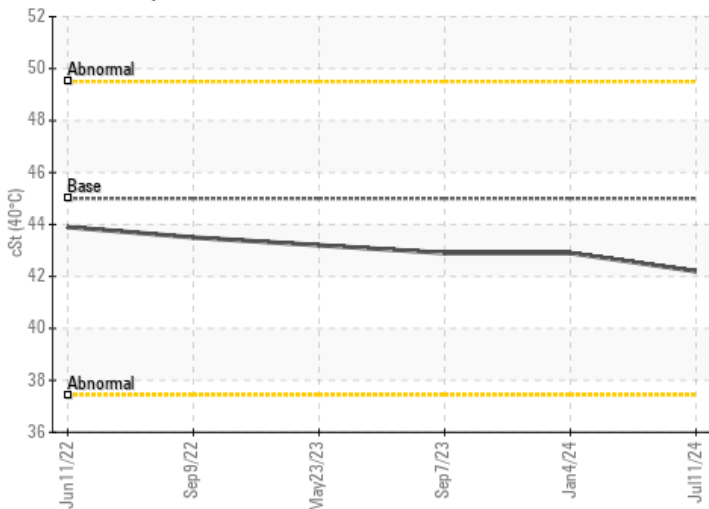
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

