

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR H2B054741 - Hydraulic System

Sample No: LH0250508

Oil Type: PETRO CANADA ENVIRON MV 46



SAMPLE INFORMATION

Sample Number	LH0250508	LH0250493	LH0221975	LH0218531
Sample Date	07 Sep 2023	23 May 2023	09 Sep 2022	11 Jun 2022
Machine Hours	3873	3619	3350	3017
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	N/A	Not Changd
Sample Status	ATTENTION	ABNORMAL	ATTENTION	ABNORMAL

Radius Recycling Canada Ltd.

12195 Musqueam Dr.

Surrey, BC

CA V3V 3T2

Contact: Shane Brown

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OIL CONDITION

Visc @ 40°C	cSt	42.9	43.2	43.5	43.9



CONTAMINATION

Particles >4µm		33276	68916	39629	51407
Particles >6µm		747	2430	2394	450
Particles >14µm		8	39	253	39
ISO 4406:1999 (c)		22/17/10	23/18/12	22/18/15	23/16/12
Silicon	ppm	4	4	6	6
Sodium	ppm	1	<1	1	1
Potassium	ppm	<1	1	<1	1



WEAR METALS

Iron	ppm	11	10	12	12
Copper	ppm	3	3	4	4
Lead	ppm	3	3	4	4
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	1	1	1
Chromium	ppm	3	3	3	3
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	771	771	1062	1051
Magnesium	ppm	5	6	6	7
Zinc	ppm	453	460	609	633
Phosphorus	ppm	546	578	573	556
Barium	ppm	<1	<1	<1	<1
Boron	ppm	2	1	<1	<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: 5658746

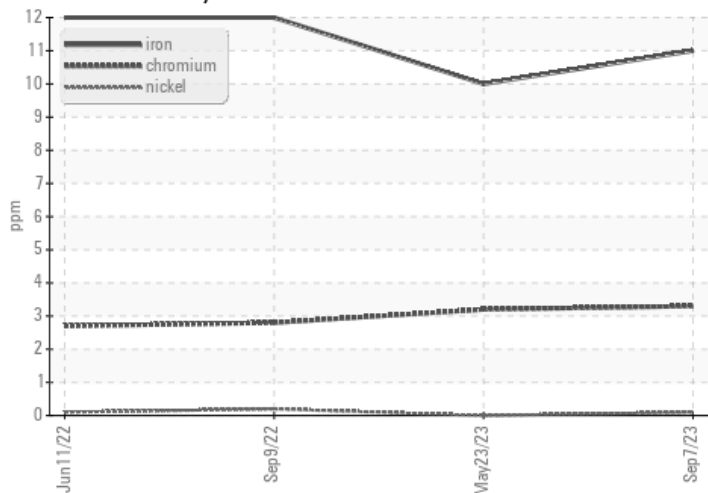
Signed: Kevin Marson

Report Date: 18 Oct 2023

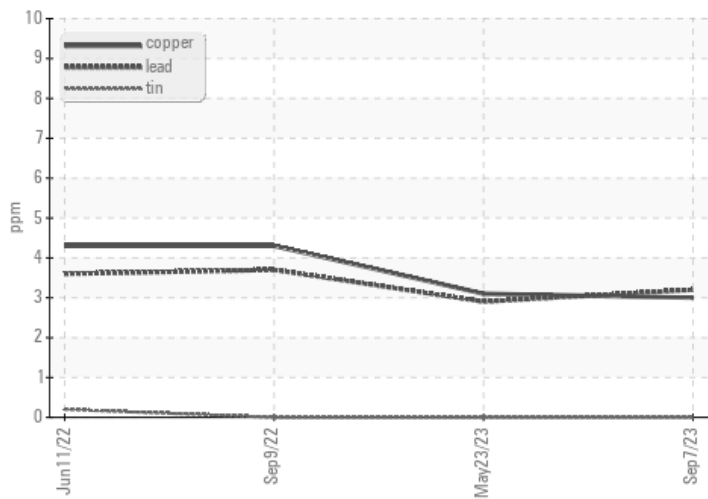


GRAPHS

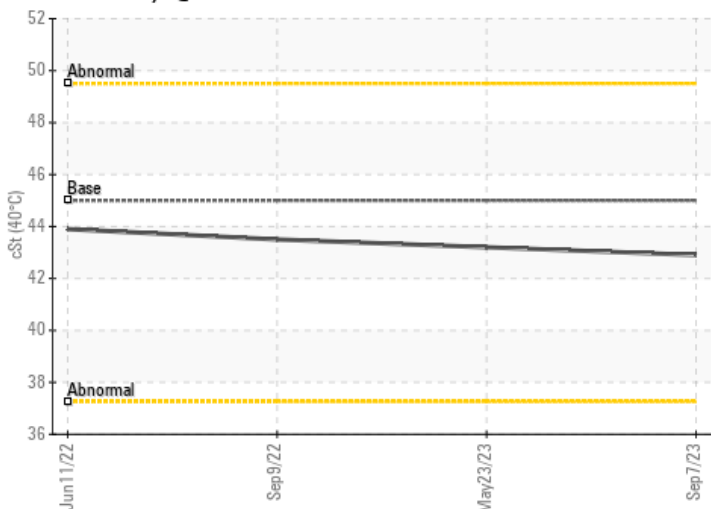
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

