

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR H2B054741 - Hydraulic System

Sample No: LH0260628

Oil Type: PETRO CANADA ENVIRON MV 46



#### SAMPLE INFORMATION

Sample Number	LH0260628	LH0250508	LH0250493	LH0221975
Sample Date	04 Jan 2024	07 Sep 2023	23 May 2023	09 Sep 2022
Machine Hours	4139	3873	3619	3350
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ATTENTION

Radius Recycling Canada Ltd.

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Surrey, BC

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#### OIL CONDITION

Visc @ 40°C	cSt	42.9	42.9	43.2	43.5



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6526	33276	68916	39629
Particles >6µm		98	747	2430	2394
Particles >14µm		11	8	39	253
ISO 4406:1999 (c)		20/14/11	22/17/10	23/18/12	22/18/15
Silicon	ppm	3	4	4	6
Sodium	ppm	<1	1	<1	1
Potassium	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.



#### WEAR METALS

Iron	ppm	10	11	10	12
Copper	ppm	2	3	3	4
Lead	ppm	3	3	3	4
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	1	1
Chromium	ppm	3	3	3	3
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	682	771	771	1062
Magnesium	ppm	5	5	6	6
Zinc	ppm	392	453	460	609
Phosphorus	ppm	545	546	578	573
Barium	ppm	<1	<1	<1	<1
Boron	ppm	<1	2	1	<1

Depot: AMISUR

Unique No: 5735504

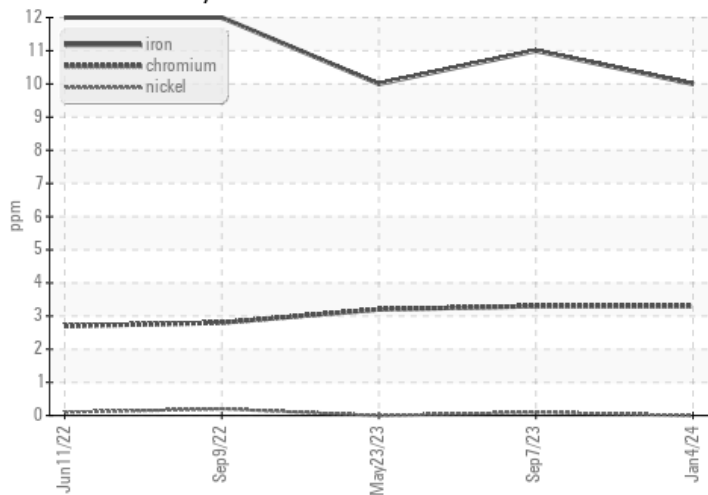
Signed: Kevin Marson

Report Date: 28 Feb 2024

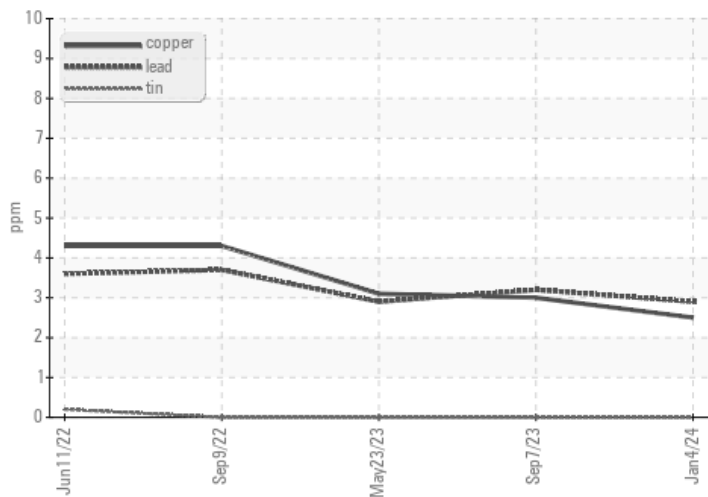


### GRAPHS

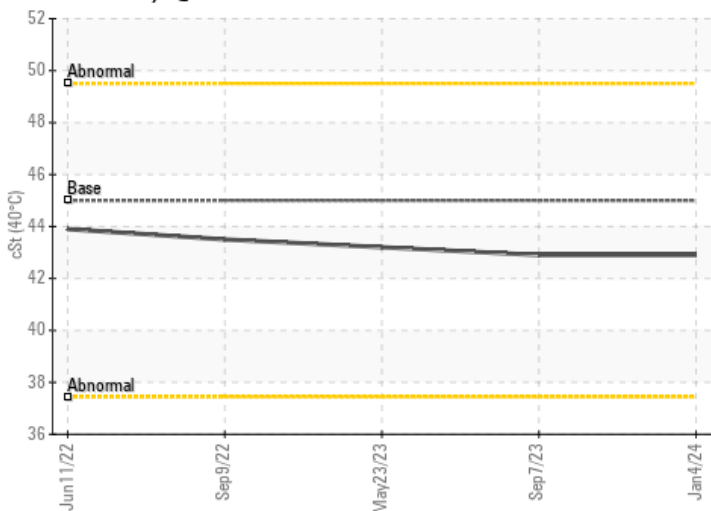
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

