

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### FL2152 - Hydraulic System

Sample No: LH0284101

Oil Type: PETRO CANADA ENVIRON MV 46



#### Sample Information

Sample Number	LH0284101	LH0260629	LH0260502	LH0250517
Sample Date	08 Apr 2024	26 Feb 2024	13 Oct 2023	24 Jul 2023
Machine Hours	2731	2482	2208	1962
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	ABNORMAL

#### Radius Recycling Canada Ltd.

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Surrey, BC  
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#### Oil Condition

Visc @ 40°C	cSt	40.9	41.3	36.8	36.9
		●	●	●	●



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 20109	● 8129	● 8276	● 7797
Particles >6µm		● 1959	● 536	● 801	● 549
Particles >14µm		● 13	● 14	● 14	● 11
ISO 4406:1999 (c)		22/18/11	20/16/11	20/17/11	20/16/11
Silicon	ppm	● 0	● 0	● 1	● <1
Sodium	ppm	● <1	● 0	● <1	● <1
Potassium	ppm	● <1	● <1	● 0	● <1

#### Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### Wear Metals

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



#### Additives

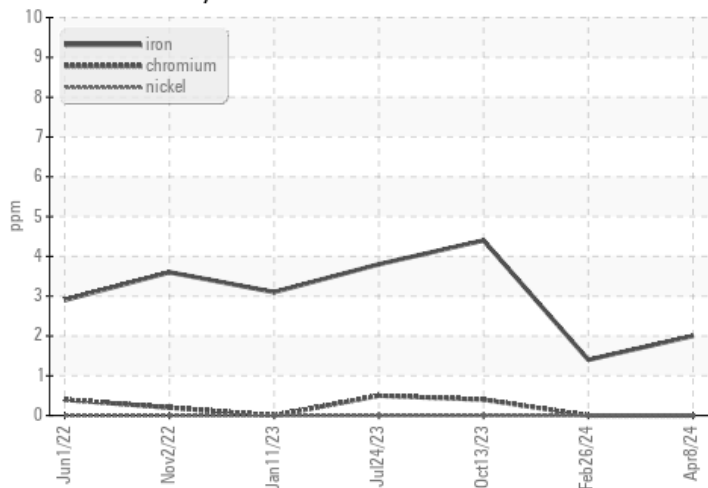
Calcium	ppm	● 10	16	● 16	● 15
Magnesium	ppm	● 3	● 2	● 3	● 3
Zinc	ppm	● 16	17	27	26
Phosphorus	ppm	● 633	● 651	● 621	● 644
Barium	ppm	● 0	● 0	● <1	● 0
Boron	ppm	● <1	● <1	● <1	● <1

Depot: AMISUR  
Unique No: 5773485  
Signed: Wes Davis  
Report Date: 01 May 2024

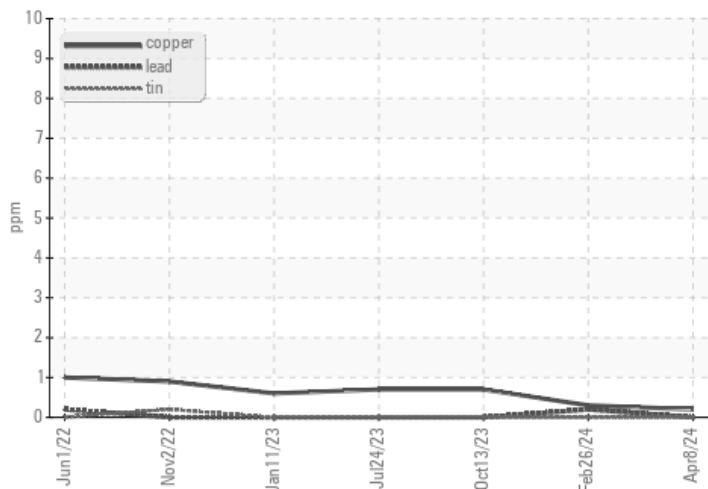


### Graphs

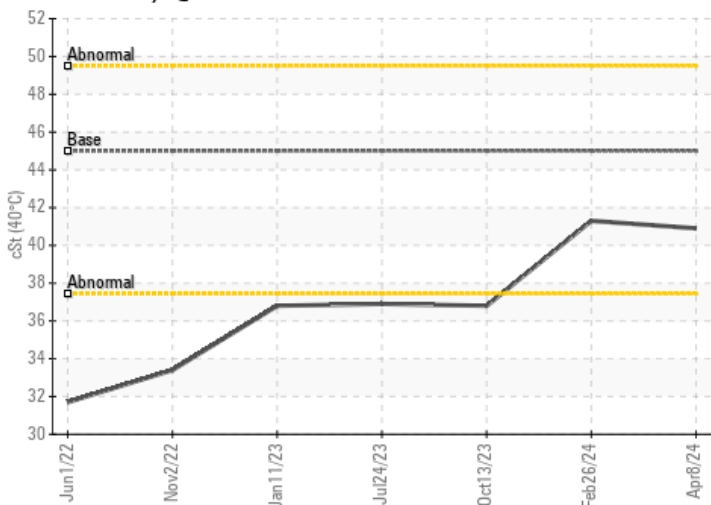
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

