LIEBHERR
CONSTRUCTION EQUIPMENT

43120 - Hydraulic System

Sample No: LH0260513

Oil Type: PETRO CANADA ENVIRON MV 46

Radius Recycling Canada Ltd.
12195 Musqueam Dr.
Surrey, BC
CA V3V 3T2
Contact: Shane Brown
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SAMPLE INFORMATION

Sample Number		**LH0260513**	LH0240798	LH0221981	---
Sample Date		**29 Sep 2023**	18 Nov 2022	06 Aug 2022	---
Machine Hours		**1694**	791	549	---
Oil Hours		**0**	0	0	---
Oil Changed		**Not Changd**	Not Changd	Not Changd	---
Sample Status		**ATTENTION**	ATTENTION	ATTENTION	---

OIL CONDITION

Visc @ 40°C	cSt	**44.1**	44.9	45.3	---

CONTAMINATION

Particles >4µm		**6553**	8309	2801	---
Particles >6µm		**535**	283	521	---
Particles >14µm		**13**	20	84	---
ISO 4406:1999 (c)		**20/16/11**	20/15/11	19/16/14	---
Silicon	ppm	**1**	<1	<1	---
Sodium	ppm	**1**	<1	<1	---
Potassium	ppm	**<1**	<1	0	---

WEAR METALS

Iron	ppm	**8**	4	3	---
Copper	ppm	**10**	9	7	---
Lead	ppm	**<1**	<1	<1	---
Tin	ppm	**0**	0	0	---
Aluminum	ppm	**<1**	<1	<1	---
Chromium	ppm	**<1**	0	0	---
Molybdenum	ppm	**0**	0	0	---
Nickel	ppm	**<1**	<1	<1	---
Titanium	ppm	**0**	0	0	---
Silver	ppm	**<1**	0	0	---
Manganese	ppm	**0**	<1	<1	---
Vanadium	ppm	**0**	0	0	---

ADDITIVES

Calcium	ppm	**31**	35	39	---
Magnesium	ppm	**9**	10	11	---
Zinc	ppm	**239**	285	289	---
Phosphorus	ppm	**300**	277	272	---
Barium	ppm	**<1**	<1	<1	---
Boron	ppm	**<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. Please specify the component make and model with your next sample.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: 5658747
Signed: Kevin Marson
Report Date: 18 Oct 2023

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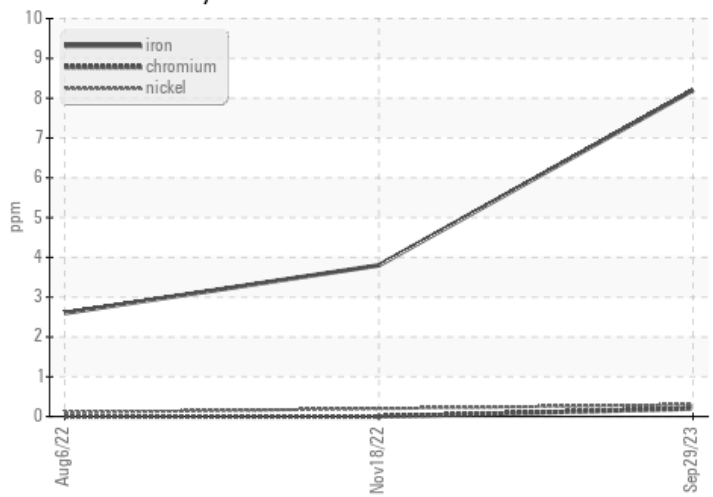
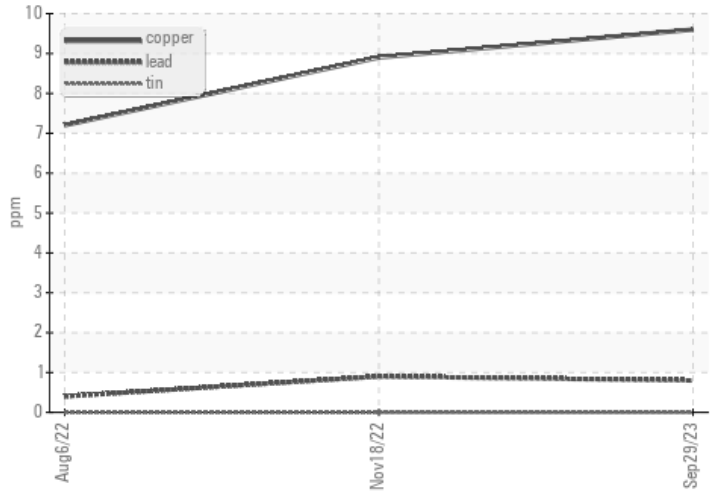
GRAPHS

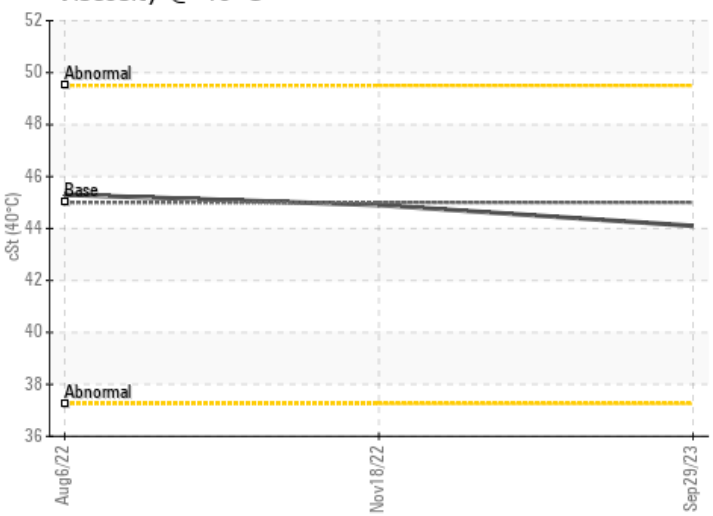
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count