

LIEBHERR

CONSTRUCTION EQUIPMENT



FL2642 - Hydraulic System

Sample No: LH0260622

Oil Type: PETRO CANADA ENVIRON MV 46



SAMPLE INFORMATION

Sample Number	LH0260622	LH0250504	LH0250491	LH0240795
Sample Date	07 Dec 2023	23 Aug 2023	17 May 2023	16 Dec 2022
Machine Hours	2317	2073	1801	1398
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ABNORMAL

Radius Recycling Canada Ltd.

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Surrey, BC

CA V3V 3T2

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OIL CONDITION

Visc @ 40°C	cSt	39.7	39.7	39.9	40.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6635	11162	15047	11276
Particles >6µm		330	1076	2335	1224
Particles >14µm		4	42	108	16
ISO 4406:1999 (c)		20/16/9	21/17/13	21/18/14	21/17/11
Silicon	ppm	1	<1	<1	<1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	0	<1	<1	0



WEAR METALS

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



ADDITIVES

Calcium	ppm	7	5	7	7
Magnesium	ppm	1	1	1	2
Zinc	ppm	32	31	30	27
Phosphorus	ppm	655	661	698	680
Barium	ppm	<1	<1	<1	0
Boron	ppm	<1	<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: 5696944

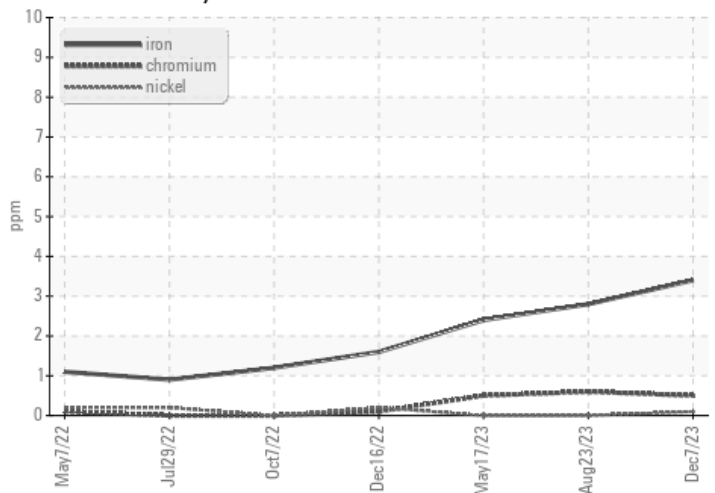
Signed: Kevin Marson

Report Date: 19 Dec 2023

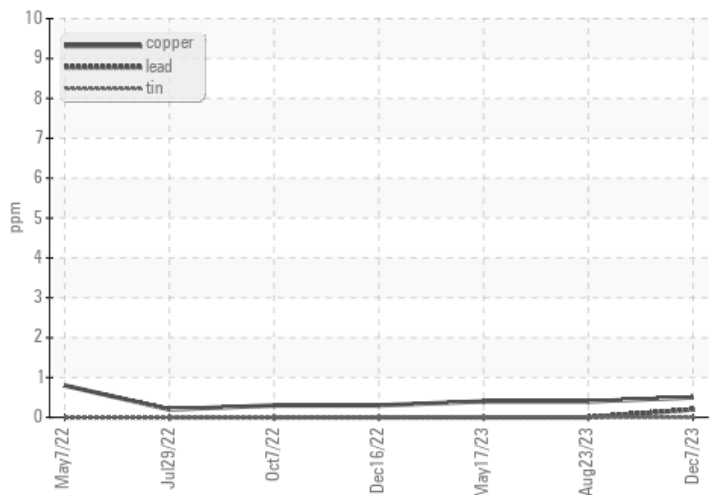


GRAPHS

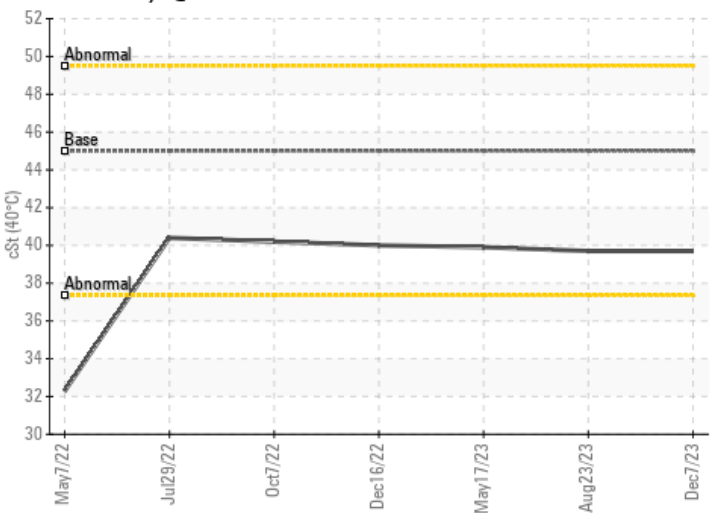
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

