

LIEBHERR

CONSTRUCTION EQUIPMENT



FL2152 - Hydraulic System

Sample No: LH0260502

Oil Type: PETRO CANADA ENVIRON MV 46



SAMPLE INFORMATION

Sample Number	LH0260502	LH0250517	LH0240712	LH
Sample Date	13 Oct 2023	24 Jul 2023	11 Jan 2023	02 Nov 2022
Machine Hours	2208	1962	1370	0
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

Radius Recycling Canada Ltd.

12195 Musqueam Dr.

Surrey, BC

CA V3V 3T2

Contact: Chris Trinkunas

ctrinkunas@rdus.com

T:

F: (604)580-1922



OIL CONDITION

Visc @ 40°C	cSt	36.8	36.9	36.8	33.4
-------------	-----	------	------	------	------



CONTAMINATION

Particles >4µm		8276	7797	18048	18473
Particles >6µm		801	549	2136	3239
Particles >14µm		14	11	25	180
ISO 4406:1999 (c)		20/17/11	20/16/11	21/18/12	21/19/15
Silicon	ppm	1	<1	<1	1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	0	<1	<1	2



WEAR METALS

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



ADDITIVES

Calcium	ppm	16	15	13	7
Magnesium	ppm	3	3	2	2
Zinc	ppm	27	26	22	23
Phosphorus	ppm	621	644	628	613
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	1	<1

Diagnosis

We recommend you service the filters on this component. 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. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: AMISUR

Unique No: 5671532

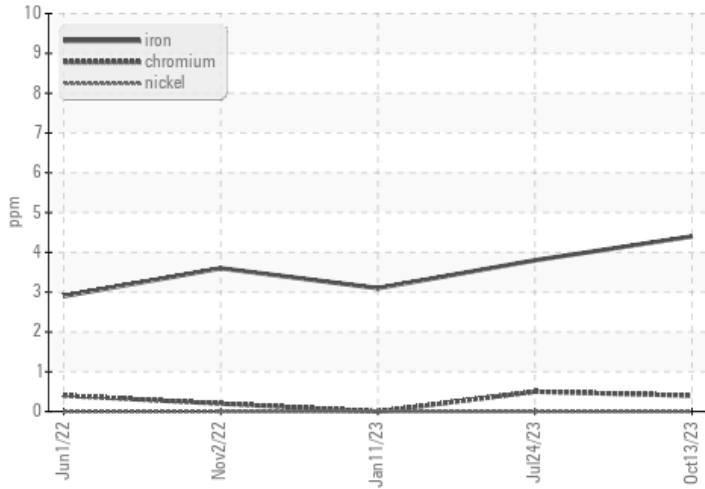
Signed: Kevin Marson

Report Date: 08 Nov 2023

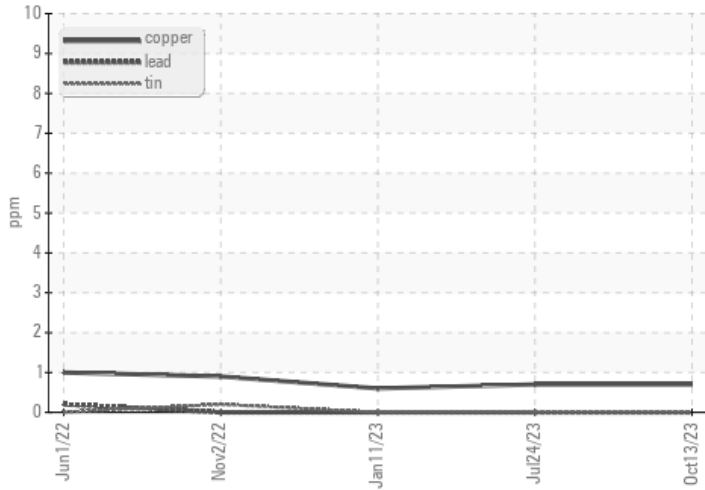


GRAPHS

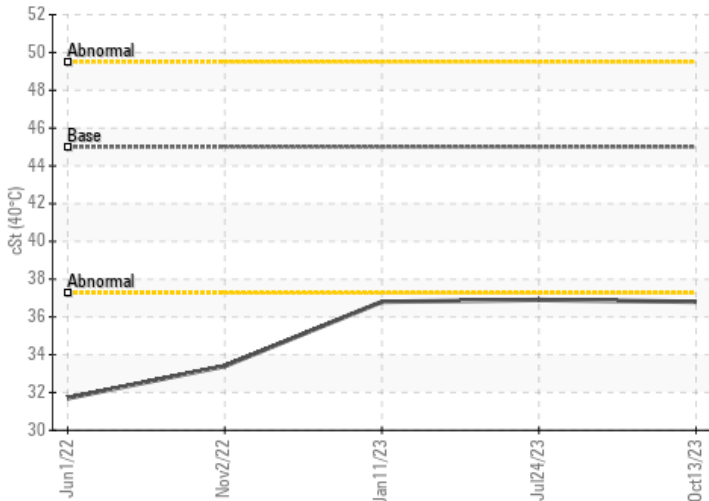
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

