

LIEBHERR

CONSTRUCTION EQUIPMENT



43120 - Hydraulic System

Sample No: LH0260563

Oil Type: PETRO CANADA ENVIRON MV 46



Sample Information

Sample Number	LH0260563	LH0260513	LH0240798	LH0221981
Sample Date	06 Mar 2024	29 Sep 2023	18 Nov 2022	06 Aug 2022
Machine Hours	2202	1694	791	549
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

Radius Recycling Canada Ltd.

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Surrey, BC
CA V3V 3T2
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Oil Condition

Visc @ 40°C	cSt	43.7	44.1	44.9	45.3



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		657	6553	8309	2801
Particles >6µm		64	535	283	521
Particles >14µm		7	13	20	84
ISO 4406:1999 (c)		17/13/10	20/16/11	20/15/11	19/16/14
Silicon	ppm	<1	1	<1	<1
Sodium	ppm	1	1	<1	<1
Potassium	ppm	<1	<1	<1	0



Wear Metals

Iron	ppm	11	8	4	3
Copper	ppm	8	10	9	7
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	27	31	35	39
Magnesium	ppm	8	9	10	11
Zinc	ppm	213	239	285	289
Phosphorus	ppm	320	300	277	272
Barium	ppm	<1	<1	<1	<1
Boron	ppm	<1	<1	<1	<1

Diagnosis

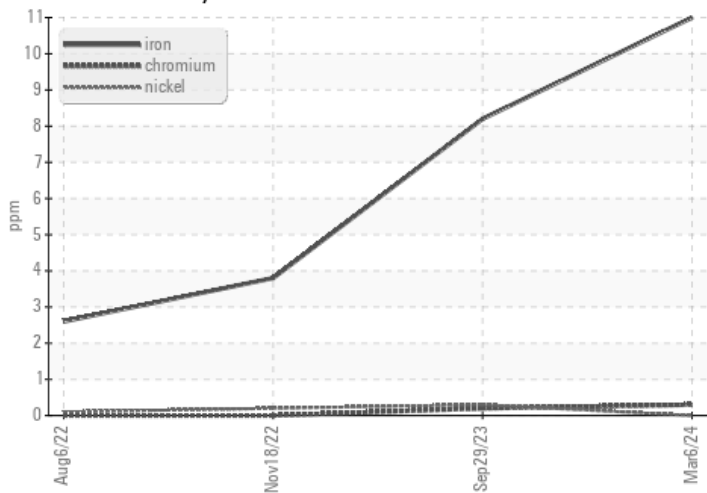
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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.

Depot: AMISUR
Unique No: 5760516
Signed: Kevin Marson
Report Date: 10 Apr 2024

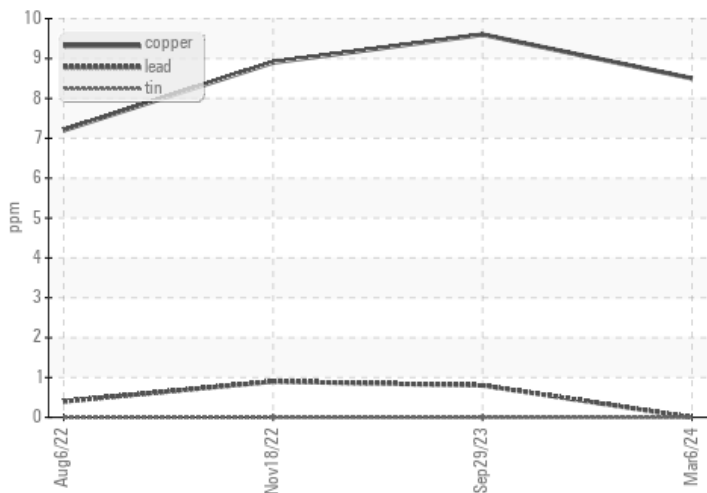


Graphs

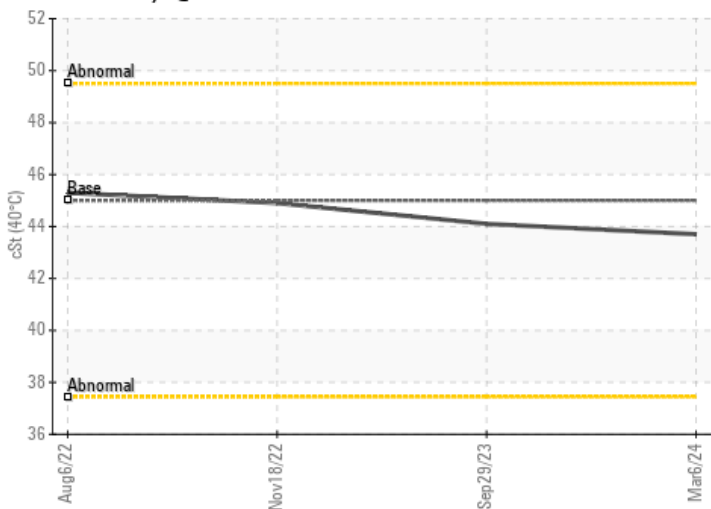
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

