

LIEBHERR

CONSTRUCTION EQUIPMENT



KOMATSU ET9340 - Hydraulic System

Sample No: LH0250520

Oil Type: PETRO CANADA HYDREX MV 46



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

Sample Number	LH0250520	LH0250483	LH0240793	LH0221976
Sample Date	21 Aug 2023	10 May 2023	22 Dec 2022	10 Sep 2022
Machine Hours	12143	11883	11611	11354
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	41.4	41.9	42.3	40.6



CONTAMINATION

Particles >4µm		10530	14738	16246	2320
Particles >6µm		365	400	3140	415
Particles >14µm		12	8	327	76
ISO 4406:1999 (c)		21/16/11	21/16/10	21/19/16	18/16/13
Silicon	ppm	1	<1	1	1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	0	0	0



WEAR METALS

Iron	ppm	8	7	11	14
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	3	4
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	128	156	243	77
Magnesium	ppm	4	4	6	6
Zinc	ppm	53	62	91	46
Phosphorus	ppm	635	682	697	697
Barium	ppm	0	0	0	0
Boron	ppm	1	2	2	1

Diagnosis

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: AMISUR
 Unique No: 5642024
 Signed: Kevin Marson
 Report Date: 08 Sep 2023

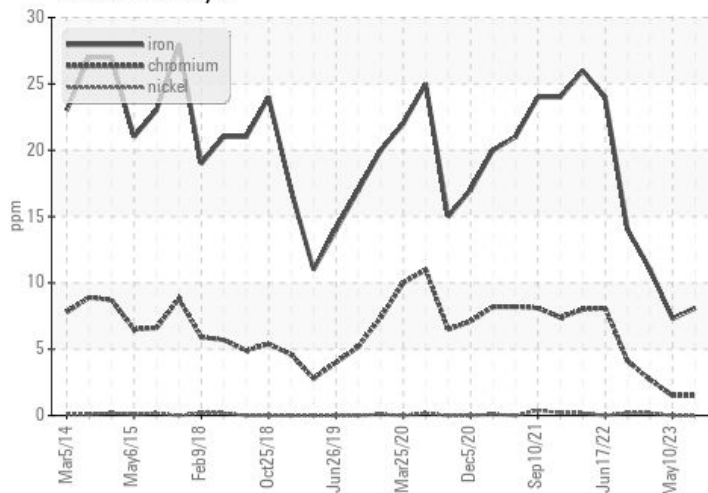
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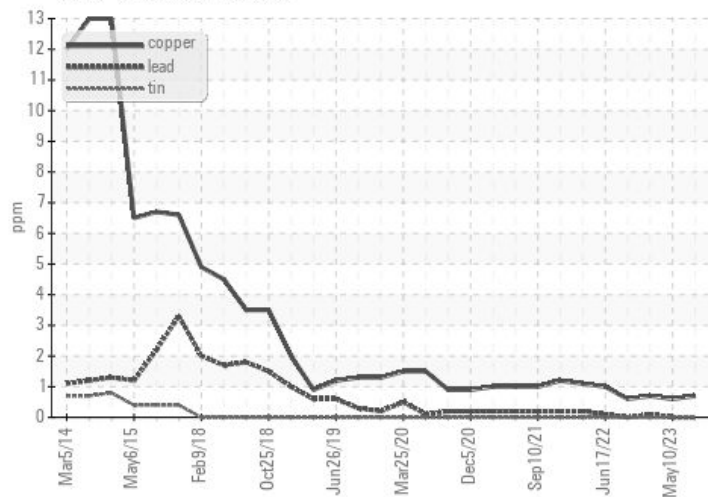


GRAPHS

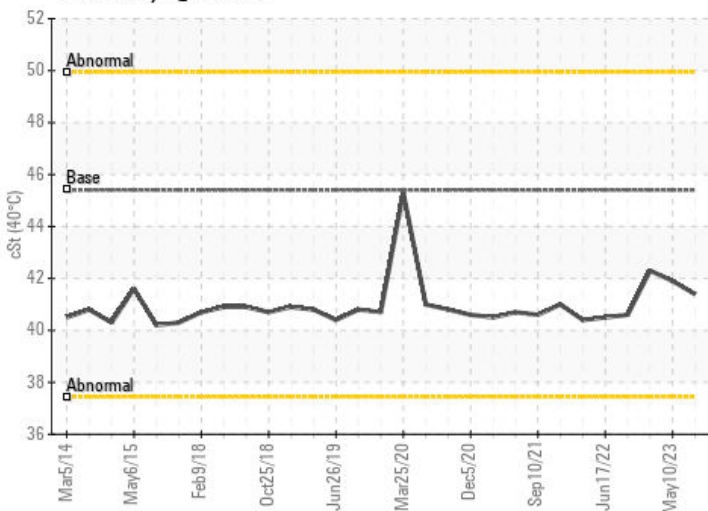
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

