

LIEBHERR

CONSTRUCTION EQUIPMENT



KOMATSU ET9340 - Hydraulic System

Sample No: LH0260632

Oil Type: PETRO CANADA HYDREX MV 46



SAMPLE INFORMATION

Sample Number	LH0260632	LH0250520	LH0250483	LH0240793
Sample Date	06 Dec 2023	21 Aug 2023	10 May 2023	22 Dec 2022
Machine Hours	12389	12143	11883	11611
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

Radius Recycling Canada Ltd.

12195 Musqueam Dr.

Surrey, BC

CA V3V 3T2

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OIL CONDITION

Visc @ 40°C	cSt	41.3	41.4	41.9	42.3
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 1803	● 10530	● 14738	● 16246
Particles >6µm		● 143	● 365	● 400	● 3140
Particles >14µm		● 8	● 12	● 8	● 327
ISO 4406:1999 (c)		18/14/10	21/16/11	21/16/10	21/19/16
Silicon	ppm	● <1	● 1	● <1	● 1
Sodium	ppm	● 0	● <1	● <1	● <1
Potassium	ppm	● 0	● <1	● 0	● 0

Diagnosis

Resample at the next service interval to monitor. 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. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	● 5	● 8	● 7	● 11
Copper	ppm	● <1	● <1	● <1	● <1
Lead	ppm	● <1	● 0	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 1	● 2	● 2	● 3
Molybdenum	ppm	● 0	● <1	● <1	● <1
Nickel	ppm	● <1	● 0	● 0	● <1
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	● 55	128	156	243
Magnesium	ppm	● 5	● 4	● 4	● 6
Zinc	ppm	29	53	62	● 91
Phosphorus	ppm	● 638	● 635	● 682	● 697
Barium	ppm	● <1	● 0	● 0	● 0
Boron	ppm	● <1	● 1	● 2	● 2

Depot: AMISUR

Unique No: 5696947

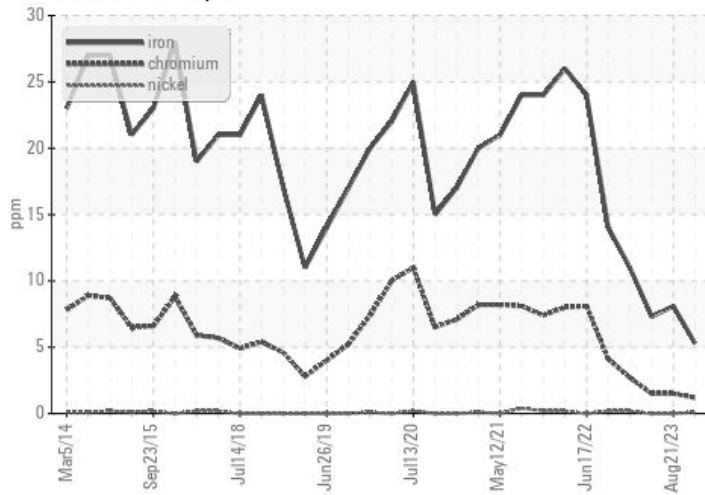
Signed: Wes Davis

Report Date: 19 Dec 2023

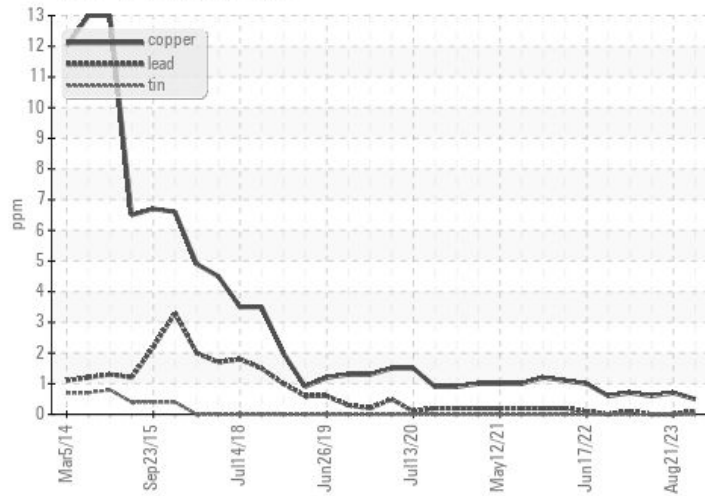


GRAPHS

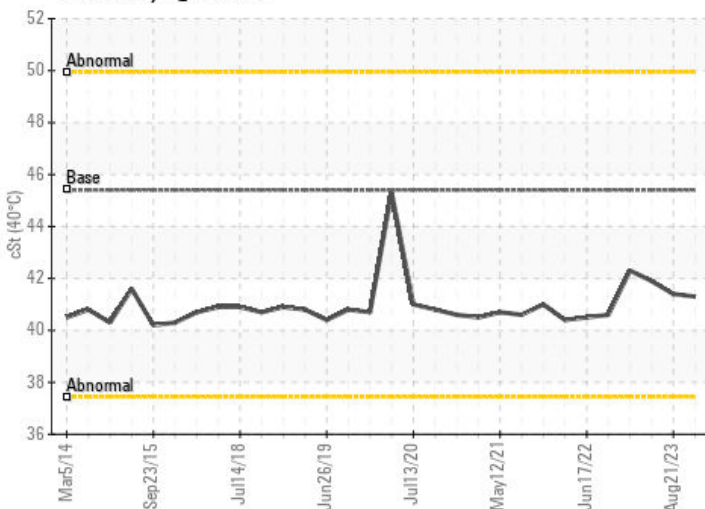
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

