

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A904C62433-1071 (S/N1071-62433) - Hydraulic S

Sample No: LH0284097

Oil Type: PETRO CANADA ENVIRON MV 46



Radius Recycling Canada Ltd.
 12195 Musqueam Dr.
 Surrey, BC
 CA V3V 3T2
 Contact: Chris Trinkunas
 ctrinkunas@rds.com
 T:
 F: (604)580-1922



Sample Information

Sample Number	LH0284097	LH0260573	LH0260505	LH0250509
Sample Date	13 Mar 2024	18 Jan 2024	20 Nov 2023	18 Sep 2023
Machine Hours	21727	21444	21166	20916
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



Oil Condition

Visc @ 40°C	cSt	40.1	40.4	40.1	40.4
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 5254	● 1956	● 592	● 4969
Particles >6µm		● 250	● 145	● 92	● 284
Particles >14µm		● 16	● 10	● 8	● 5
ISO 4406:1999 (c)		20/15/11	18/14/10	16/14/10	19/15/10
Silicon	ppm	● 0	● 1	● 1	● 1
Sodium	ppm	● 2	● 2	● 2	● 2
Potassium	ppm	● 2	● 2	● <1	● 1



Wear Metals

PQ		● 5	● 4	● 3	● 3
Iron	ppm	● 91	● 82	● 81	● 82
Copper	ppm	● 2	● 2	● 2	● 2
Lead	ppm	● 0	● <1	● <1	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● 1	● <1	● <1
Chromium	ppm	● 4	● 4	● 3	● 3
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● 0	● <1	● <1	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	● 0	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	● 15	● 16	● 16	● 16
Magnesium	ppm	● 4	● 4	● 3	● 4
Zinc	ppm	● 27	● 26	● 25	● 26
Phosphorus	ppm	● 580	● 589	● 594	● 592
Barium	ppm	● <1	● 0	● <1	● <1
Boron	ppm	● <1	● <1	● <1	● <1

Diagnosis

We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. NOTE: An increase in the particle count is noted. The condition of the oil is acceptable for the time in service.

Depot: AMISUR
 Unique No: 5760514
 Signed: Kevin Marson
 Report Date: 10 Apr 2024

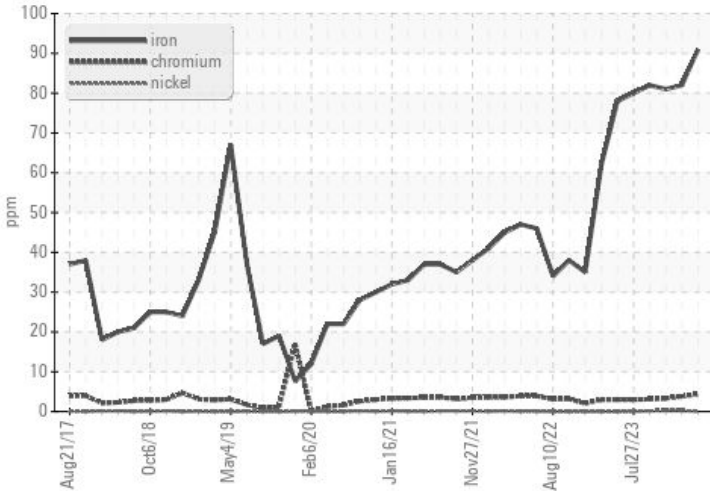
LIEBHERR

CONSTRUCTION EQUIPMENT

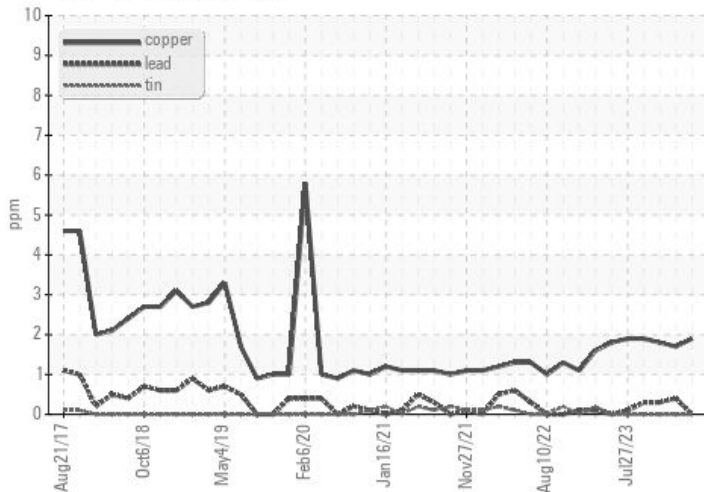


Graphs

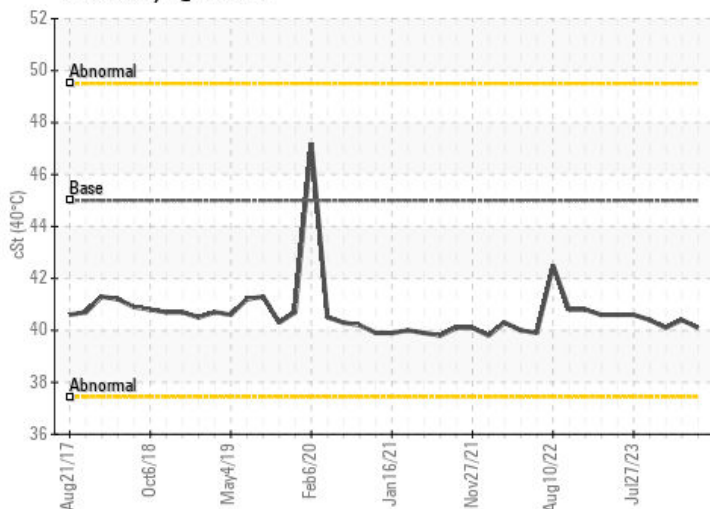
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

