

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R924C028643-1069 - Hydraulic System

Sample No: LH0270334

Oil Type: LORDCO AW 46

ABC RECYCLING

8081 MEADOW AVE.

BURNABY, BC

CA V3N 2V9

Contact: John Anderson

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F:

Diagnosis

We advise that you check for visible metal particles in the oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Light concentration of visible metal present. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



Sample Information

Sample Number		LH0270334	LH0281208	LH0185817	LHMC161420
Sample Date		12 Apr 2024	01 Feb 2024	20 Jan 2021	10 Oct 2019
Machine Hours		18936	18438	11574	11497
Oil Hours		0	0	0	0
Oil Changed		Not Changd	Not Changd	Not Changd	Not Changd
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	● 38.6	● 42.8	● 47.5	● 49.7
Acid Number (AN)	mg KOH/g	---	---	---	● 0.692



Contamination

Water	%	NEG	● 0.010	NEG	NEG
Particles >4µm		● 72329	● 1581	● 7553	● 5236
Particles >6µm		● 5540	● 201	● 978	● 674
Particles >14µm		● 56	● 16	● 80	● 43
ISO 4406:1999 (c)		23/20/13	18/15/11	20/17/13	20/17/13
Silicon	ppm	● 0	● <1	● 2	● 2
Sodium	ppm	● <1	● 0	● 2	● 2
Potassium	ppm	● <1	● <1	● 1	● <1



Wear Metals

Iron	ppm	● 13	● 11	● 11	● 11
Copper	ppm	● 4	● 2	● 12	● 12
Lead	ppm	● 0	● <1	● 1	● <1
Tin	ppm	● 0	● 0	● <1	● <1
Aluminum	ppm	● 0	● <1	● <1	● <1
Chromium	ppm	● 2	● 2	● 4	● 3
Molybdenum	ppm	● 0	● 0	● 6	● 6
Nickel	ppm	● 0	● 0	● <1	● 0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	● 0	● <1	<1
Vanadium	ppm	0	0	0	0



Additives

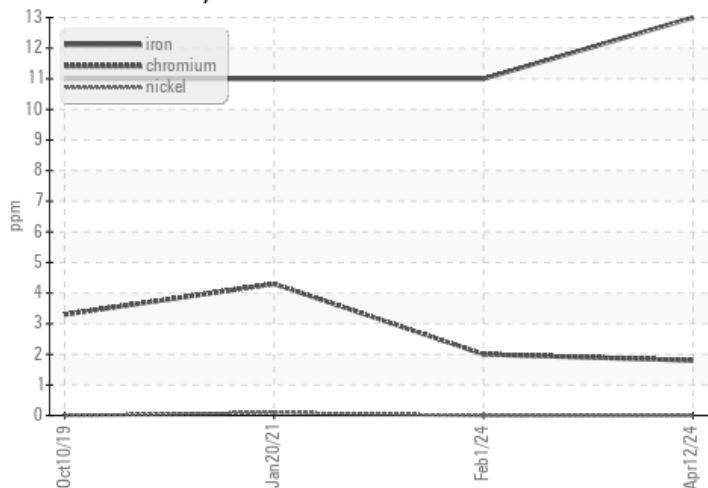
Calcium	ppm	● 29	● 25	● 716	727
Magnesium	ppm	● 1	● 2	● 63	65
Zinc	ppm	● 373	● 376	● 592	616
Phosphorus	ppm	● 307	● 321	● 472	493
Barium	ppm	● 0	● 0	● <1	0
Boron	ppm	● <1	● <1	● 9	10

Depot: ABCBUR
 Unique No: 5772138
 Signed: Kevin Marson
 Report Date: 24 Apr 2024

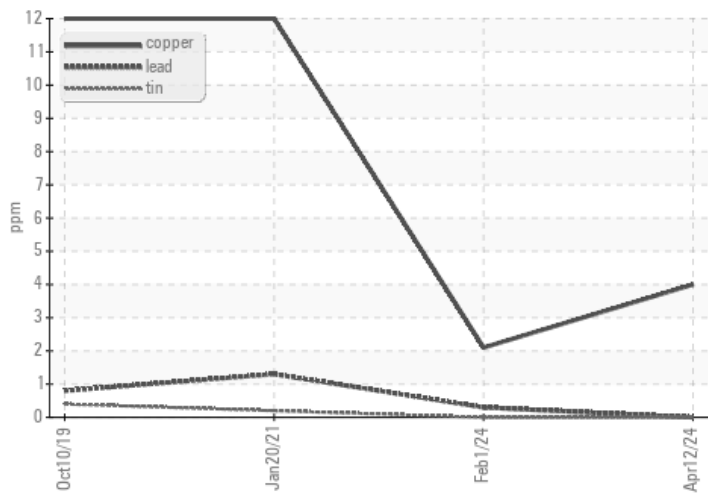


Graphs

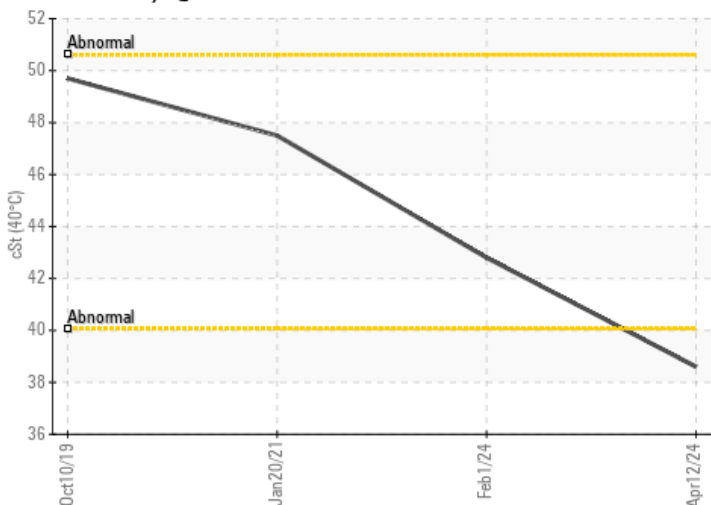
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)

