

LIEBHERR

CONSTRUCTION EQUIPMENT



[(336345)] LIEBHERR L586 060438-1334 - Hydraulic System

Sample No: LH0278552

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH0278552	LH0242721	LH	LH0234400
Sample Date	01 Nov 2023	14 Jan 2023	24 Sep 2022	08 Aug 2022
Machine Hours	6957	5019	6018	3993
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	SEVERE	ATTENTION	ABNORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

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Contact: Joel Malkoske

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F:



OIL CONDITION

Visc @ 40°C	cSt	41.5	40.9	42.3	41.8



CONTAMINATION

Particles >4µm		122775	30313	74116	17609
Particles >6µm		53624	4685	10339	2091
Particles >14µm		1696	455	248	42
ISO 4406:1999 (c)		24/23/18	22/19/16	23/21/15	21/18/13
Silicon	ppm	11	9	2	7
Sodium	ppm	4	4	<1	3
Potassium	ppm	2	3	<1	2



WEAR METALS

Iron	ppm	32	27	15	18
Copper	ppm	7	6	2	5
Lead	ppm	12	10	3	9
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	3	<1	2
Chromium	ppm	6	5	<1	3
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	5
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1487	1539	744	1497
Magnesium	ppm	15	13	5	12
Zinc	ppm	726	719	813	692
Phosphorus	ppm	607	658	714	596
Barium	ppm	<1	0	0	0
Boron	ppm	9	9	11	9

Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. Chromium ppm levels are abnormal. Ring wear is indicated. There is a high 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.

Depot: BIRWIN

Unique No: 5671327

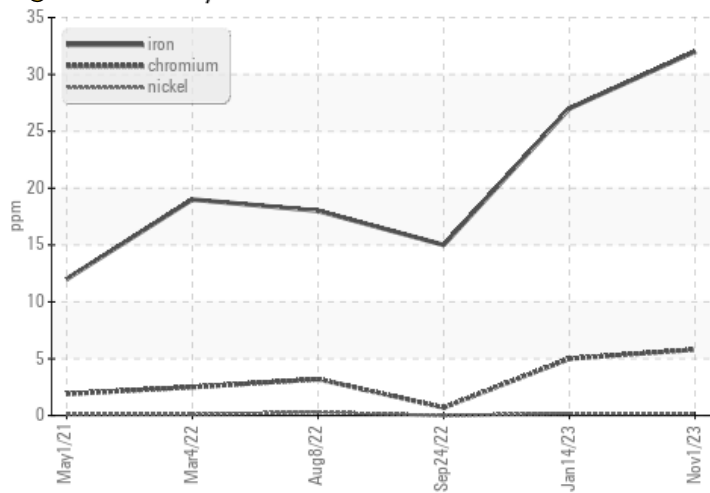
Signed: Kevin Marson

Report Date: 07 Nov 2023

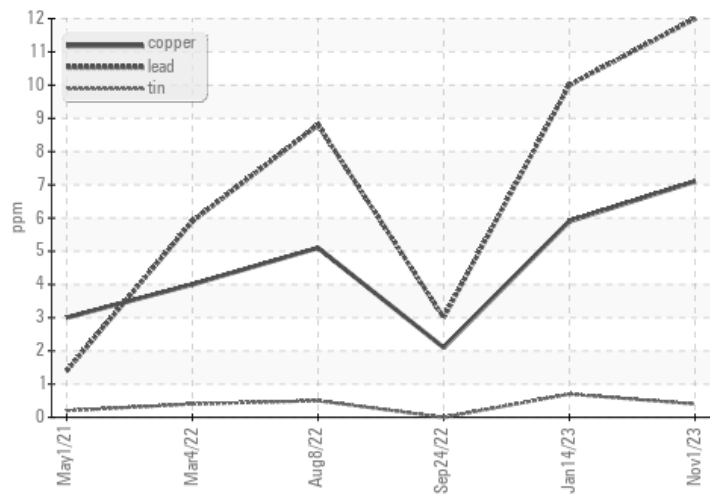


GRAPHS

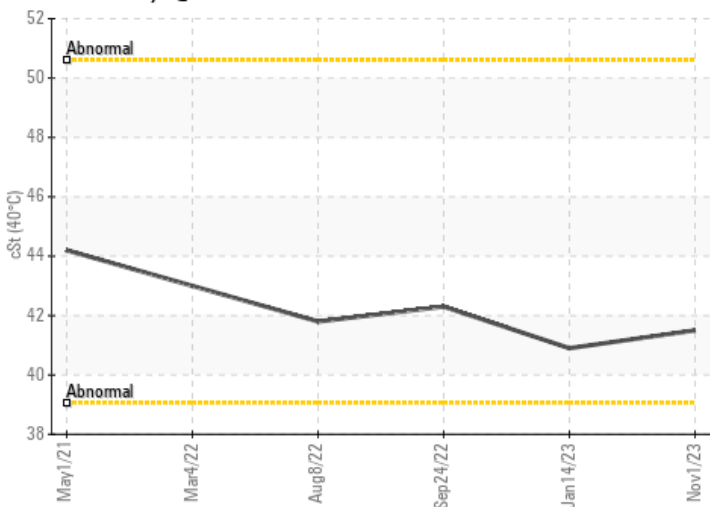
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



● Particle Count

