

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 055862-1334 - Hydraulic System

Sample No: LH
Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH	LH	LH0213668	LH0199592
Sample Date	07 Aug 2023	23 Apr 2022	23 Apr 2022	13 Sep 2021
Machine Hours	8000	7000	5000	3983
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	N/A
Sample Status	ABNORMAL	SEVERE	ABNORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.
1 Terracon Place
Winnipeg, MB
CA R2J 4B3
Contact: Joel Malkoske
Jmalkoske@glacialagg.ca
T: (204)663-0064
F:



OIL CONDITION

Visc @ 40°C	cSt	44.6	42.7	44.4	44.7
-------------	-----	------	------	------	------



CONTAMINATION

Particles >4µm	44071	115720	23928	9413
Particles >6µm	6974	43375	866	1660
Particles >14µm	392	1586	13	117
ISO 4406:1999 (c)	23/20/16	24/23/18	22/17/11	20/18/14
Silicon ppm	5	4	4	3
Sodium ppm	1	<1	<1	<1
Potassium ppm	1	0	1	1

Diagnosis

The filter change at the time of sampling has been noted. 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. The water content is negligible. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron ppm	22	25	25	15
Copper ppm	2	2	3	2
Lead ppm	3	3	5	5
Tin ppm	0	<1	<1	<1
Aluminum ppm	2	2	2	1
Chromium ppm	1	1	2	1
Molybdenum ppm	0	0	0	0
Nickel ppm	<1	0	<1	<1
Titanium ppm	0	<1	0	0
Silver ppm	0	0	0	<1
Manganese ppm	<1	<1	<1	<1
Vanadium ppm	0	0	0	0



ADDITIVES

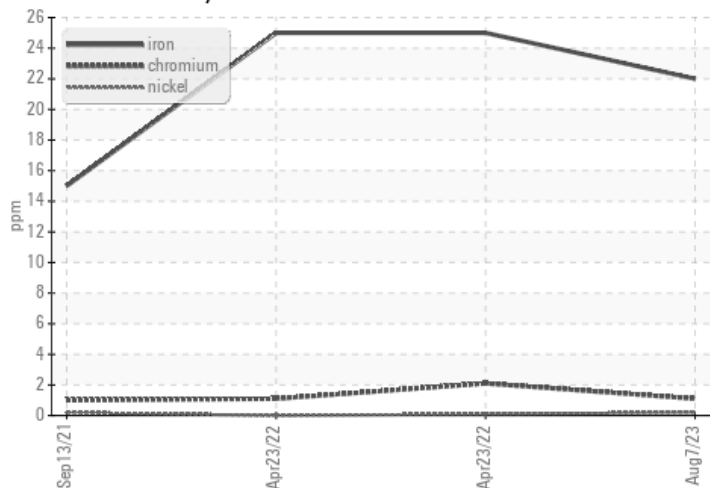
Calcium ppm	1477	1047	855	719
Magnesium ppm	10	9	9	7
Zinc ppm	886	842	817	766
Phosphorus ppm	752	733	684	639
Barium ppm	0	0	0	0
Boron ppm	8	10	<1	<1

Depot: BIRWIN
Unique No: 5619587
Signed: Wes Davis
Report Date: 09 Aug 2023

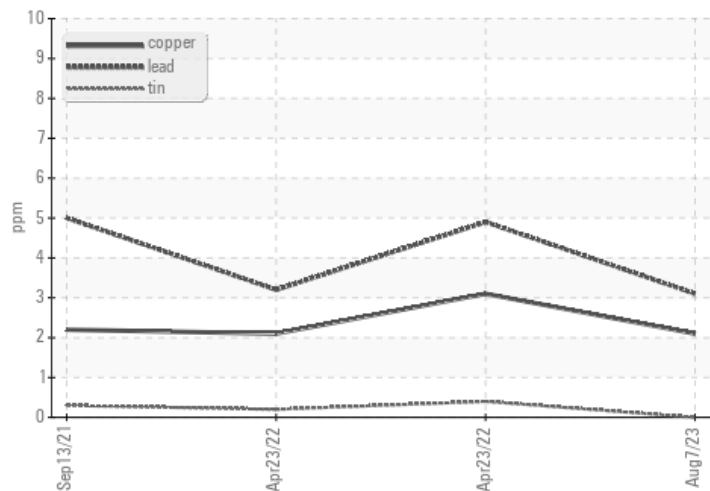


GRAPHS

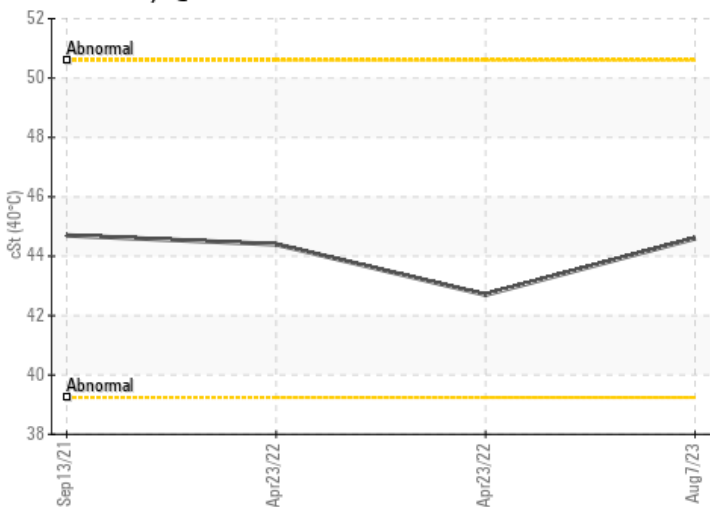
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

