

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 054472-1334 - Hydraulic System

Sample No: LH  
 Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LH	LH	LH0242802	LH
Sample Date	20 Nov 2023	22 Jun 2023	14 Dec 2022	31 Aug 2022
Machine Hours	8000	7000	6005	5309
Oil Hours	0	0	0	5309
Oil Changed	Changed	N/A	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ATTENTION

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



#### OIL CONDITION

Visc @ 40°C	cSt	40.5	43.1	42.6	42.9



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		105592	106031	46689	26703
Particles >6µm		15045	28545	1183	1491
Particles >14µm		243	693	9	69
ISO 4406:1999 (c)		24/21/15	24/22/17	23/17/10	22/18/13
Silicon	ppm	6	6	8	6
Sodium	ppm	<1	<1	1	1
Potassium	ppm	<1	1	2	1



#### WEAR METALS

Iron	ppm	26	22	30	23
Copper	ppm	11	9	6	6
Lead	ppm	8	7	10	9
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	3	3
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	477	544	915	880
Magnesium	ppm	19	12	11	9
Zinc	ppm	774	832	805	793
Phosphorus	ppm	607	696	702	697
Barium	ppm	<1	0	0	0
Boron	ppm	3	4	7	7

#### Diagnosis

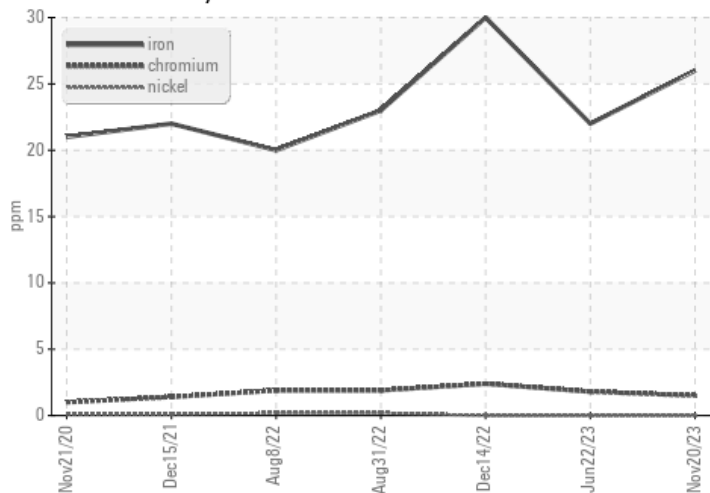
The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: BIRWIN  
 Unique No: 5683939  
 Signed: Kevin Marson  
 Report Date: 27 Nov 2023

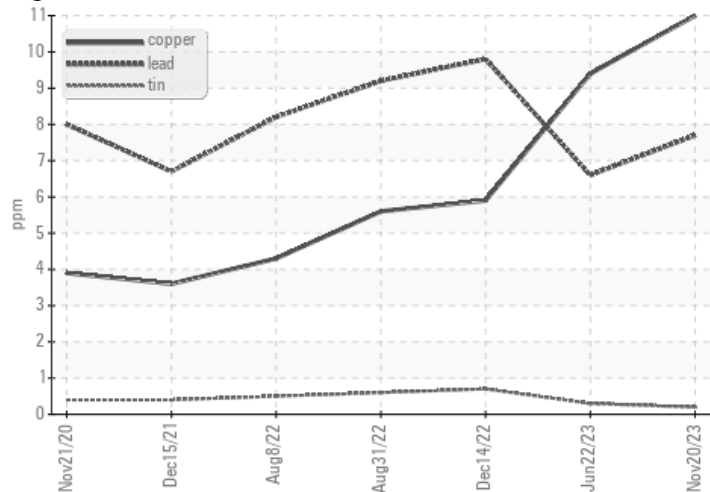


### GRAPHS

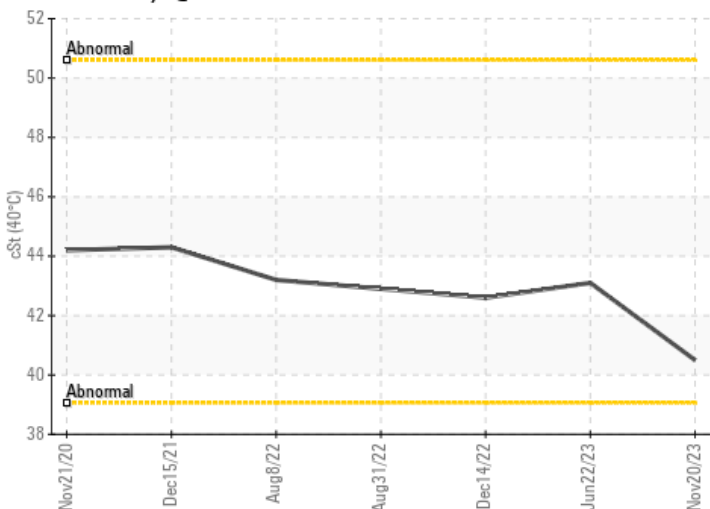
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

