

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 053090-1334 - Hydraulic System

Sample No: LH0276298

Oil Type: LIEBHERR HYDRAULIC HVI



#### Sample Information

Sample Number	LH0276298	LH0278861	LH0239416	LH0247518
Sample Date	16 Apr 2024	11 Jan 2024	16 Feb 2023	15 Nov 2022
Machine Hours	10149	9661	7639	7101
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

**Waterford Sand and Gravel Ltd.**

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#### Oil Condition

Visc @ 40°C	cSt	40.9	39.9	40.2	40.6
		●	●	●	●



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 70495	● 21308	● 7887	● 3939
Particles >6µm		● 25276	● 4870	● 1229	● 310
Particles >14µm		● 1382	● 172	● 62	● 9
ISO 4406:1999 (c)		23/22/18	22/19/15	20/17/13	19/15/10
Silicon	ppm	● 6	● 9	● 8	● 7
Sodium	ppm	● 1	● 1	● 2	● 1
Potassium	ppm	● 2	● 2	● 2	● 2

#### Diagnosis

We recommend you service the filters on this component. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### Wear Metals

Iron	ppm	● 34	● 45	● 28	● 23
Copper	ppm	● 4	● 5	● 4	● 4
Lead	ppm	● 7	● 11	● 9	● 9
Tin	ppm	● 0	● <1	● <1	● <1
Aluminum	ppm	● 3	● 4	● 3	● 3
Chromium	ppm	● 2	● 4	● 3	● 2
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● 0	● 0	● <1	● <1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



#### Additives

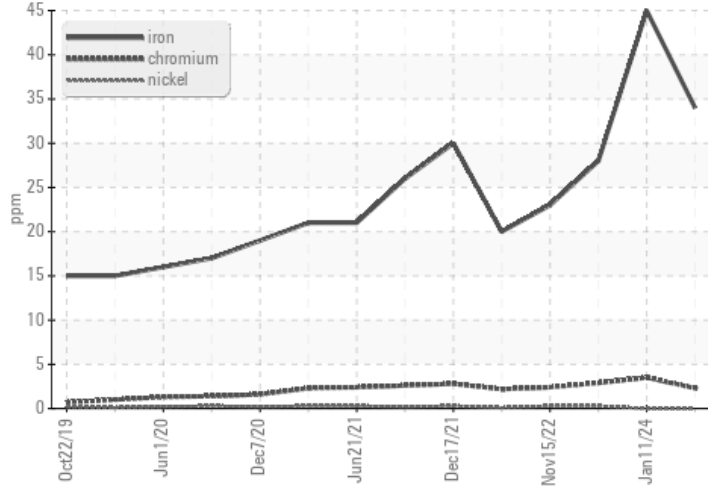
Calcium	ppm	509	663	685	681
Magnesium	ppm	● 7	● 8	● 7	● 7
Zinc	ppm	● 602	● 684	● 685	● 693
Phosphorus	ppm	● 482	● 569	● 604	● 598
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 1	● <1	● <1	● <1

Depot: WAT70BRA2  
Unique No: 5762801  
Signed: Kevin Marson  
Report Date: 18 Apr 2024

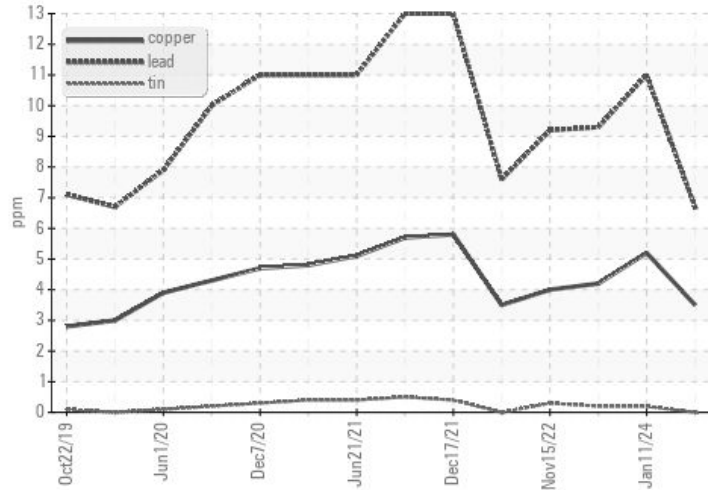


### Graphs

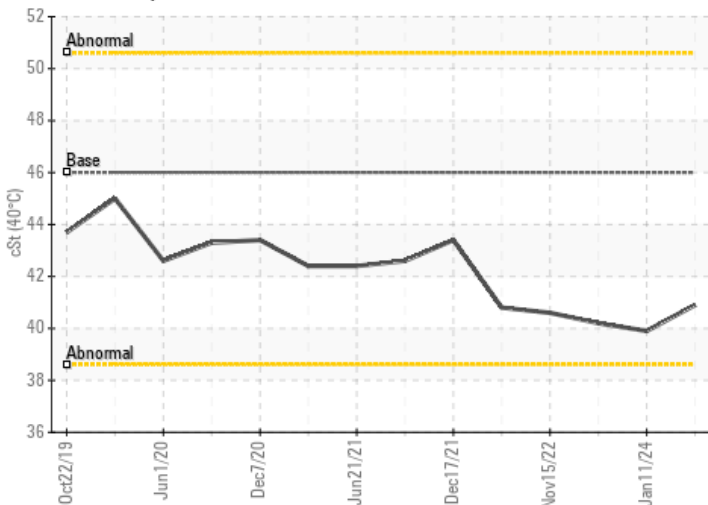
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

