

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 033192 - Hydraulic System

Sample No: LH0276126

Oil Type: AW HYDRAULIC OIL ISO 46

#### WATERFORD SAND & GRAVEL

10546 ON-3

WAINFLEET, ON

CA L0S 1V0

Contact: Service Manager

T:

F:

#### 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.



## SAMPLE INFORMATION

Sample Number		<b>LH0276126</b>	LH0261555	LH0256980	LH0239334
Sample Date		<b>14 Sep 2023</b>	12 Jun 2023	10 Mar 2023	30 Sep 2022
Machine Hours		<b>18717</b>	18079	17487	16970
Oil Hours		<b>0</b>	0	0	0
Oil Changed		<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL



## OIL CONDITION

Visc @ 40°C	cSt	● <b>46.9</b>	● 39.4	● 41.1	● 44.4
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● <b>40889</b>	● 10547	● 2354	● 6950
Particles >6µm		● <b>8778</b>	● 2697	● 396	● 1727
Particles >14µm		● <b>262</b>	● 86	● 12	● 133
ISO 4406:1999 (c)		<b>23/20/15</b>	21/19/14	18/16/11	20/18/14
Silicon	ppm	● <1	● <1	● <1	● 4
Sodium	ppm	● <b>0</b>	● 0	● <1	● <1
Potassium	ppm	● <1	● <1	● <1	● <1



## WEAR METALS

Iron	ppm	● <1	● 2	● 2	● 10
Copper	ppm	● <b>0</b>	● <1	● <1	● 1
Lead	ppm	● <1	● 0	● <1	● 5
Tin	ppm	● <b>0</b>	● 0	● 0	● 0
Aluminum	ppm	● <1	● <1	● 0	● 1
Chromium	ppm	● <b>0</b>	● 0	● 0	● <1
Molybdenum	ppm	● <b>0</b>	● <1	● <1	● 0
Nickel	ppm	● <1	● 0	● 0	● 0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	● <b>0</b>	● 0	● 0	● <1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

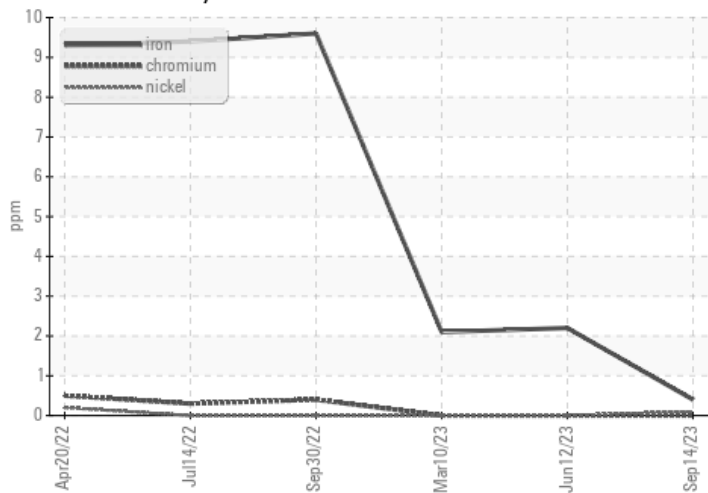
Calcium	ppm	● <b>99</b>	● 95	● 104	● 854
Magnesium	ppm	● <1	● 16	● 8	● 3
Zinc	ppm	● <b>826</b>	● 674	● 713	● 743
Phosphorus	ppm	● <b>687</b>	● 590	● 601	● 672
Barium	ppm	● <b>0</b>	● 0	● 0	● 0
Boron	ppm	● <b>0</b>	● <1	● <1	● <1

Depot: WATWAI  
 Unique No: 5643917  
 Signed: Bill Quesnel  
 Report Date: 19 Sep 2023

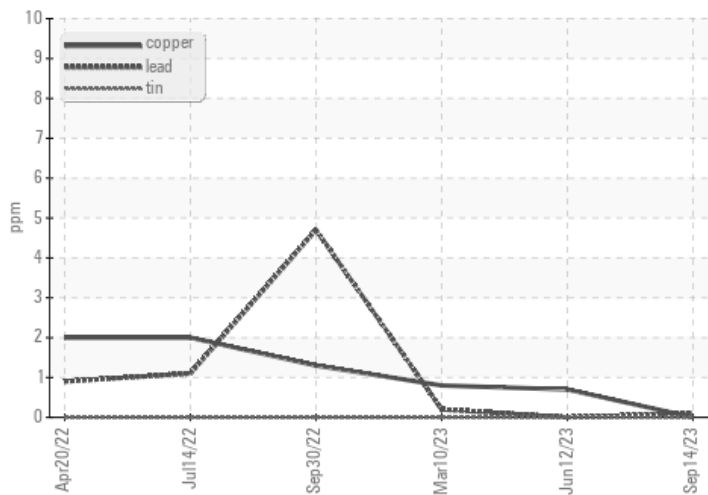


### GRAPHS

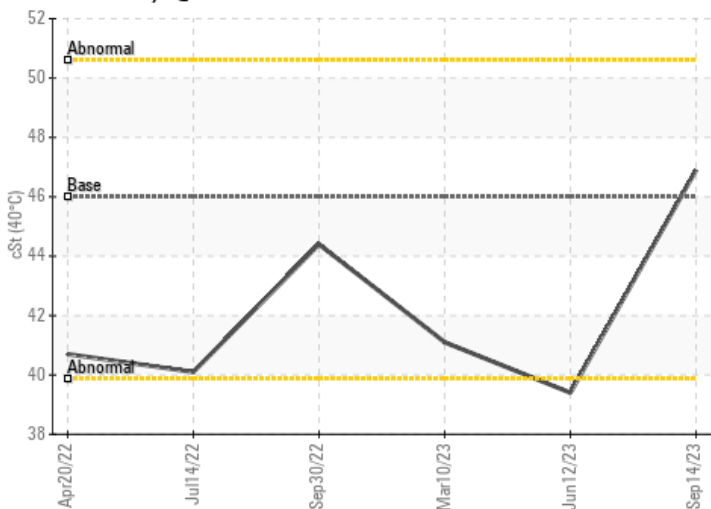
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



Particle Filter (Magn: 100 x)

