

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(361220)] LIEBHERR LH50M 134706-1216 - Hydraulic System

Sample No: LH  
 Oil Type: NOT GIVEN



#### Sample Information

Sample Number	LH	LH	LH	LH0250100
Sample Date	07 May 2024	15 Feb 2024	12 Sep 2023	27 Mar 2023
Machine Hours	0	5100	4000	2610
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL

**Industrial Metals**  
 550 Messier St.  
 Winnipeg, MB  
 CA R2J 0G5  
 Contact: Service Manager



#### Oil Condition

Visc @ 40°C	cSt	44.0	44.1	44.2	43.3
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T:  
 F:



#### Contamination

Water	%	NEG	NEG	NEG	0.161
Particles >4µm		55078	46130	14043	15354
Particles >6µm		14257	12037	3274	4577
Particles >14µm		400	332	98	218
ISO 4406:1999 (c)		23/21/16	23/21/16	21/19/14	21/19/15
Silicon	ppm	<1	2	2	2
Sodium	ppm	<1	<1	<1	1
Potassium	ppm	<1	1	1	2

#### Diagnosis

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. 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. Free water present. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### Wear Metals

Iron	ppm	30	30	34	35
Copper	ppm	4	3	3	3
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

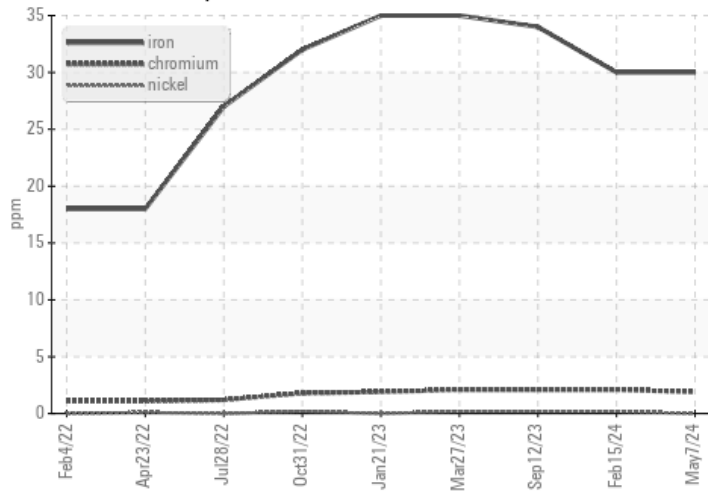
Calcium	ppm	431	495	590	806
Magnesium	ppm	2	2	2	3
Zinc	ppm	783	769	767	770
Phosphorus	ppm	648	668	724	689
Barium	ppm	0	0	0	0
Boron	ppm	4	5	7	<1

Depot: IND550WIN  
 Unique No: 5775733  
 Signed: Kevin Marson  
 Report Date: 13 May 2024

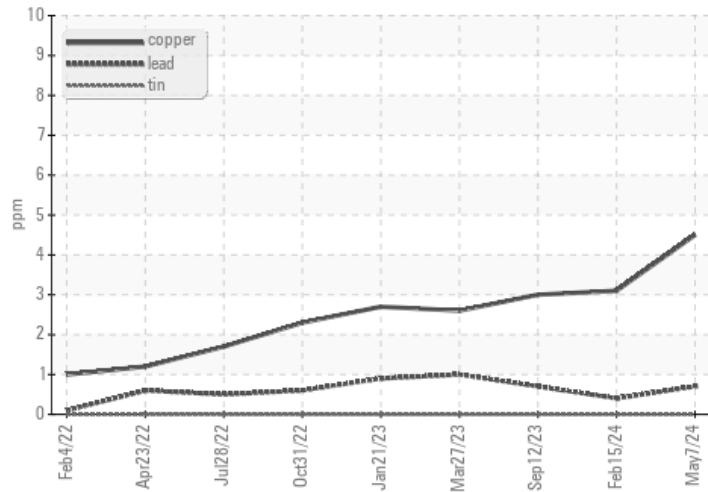


### Graphs

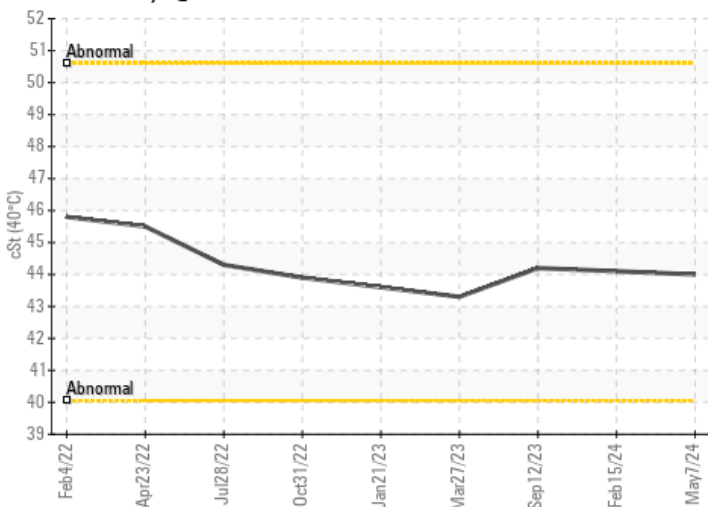
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

