

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30 144578-1253 - Hydraulic System

Sample No: LH0278708

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Sample Information

Sample Number	LH0278708	LH0278615	LH	LH0250057
Sample Date	05 Apr 2024	15 Jan 2024	04 Oct 2023	22 Mar 2023
Machine Hours	1300	1200	0	498
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

#### Industrial Metals

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



#### Oil Condition

Visc @ 40°C	cSt	44.0	44.0	44.2	48.4
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T:  
F:



#### Contamination

Water	%	NEG	NEG	0.056	0.500
Particles >4µm		4893	8061	28895	108453
Particles >6µm		666	2087	11613	32994
Particles >14µm		44	136	888	2634
ISO 4406:1999 (c)		19/17/13	20/18/14	22/21/17	24/22/19
Silicon	ppm	2	3	3	2
Sodium	ppm	2	2	2	<1
Potassium	ppm	<1	<1	<1	1

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	21	21	20	15
Copper	ppm	5	5	6	3
Lead	ppm	0	<1	1	2
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	0



#### Additives

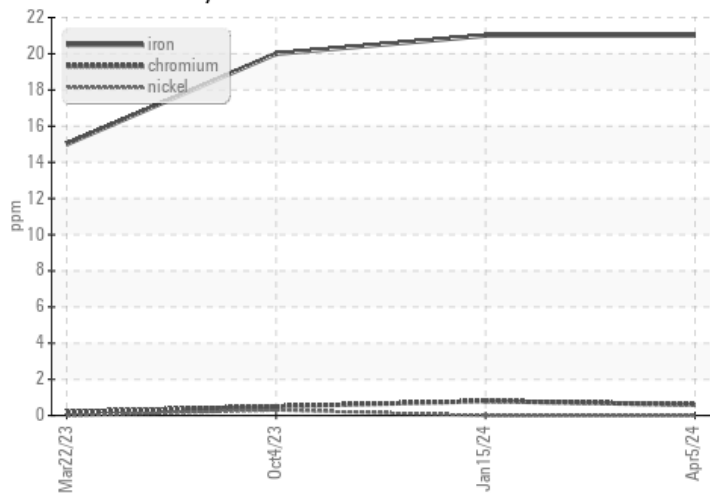
Calcium	ppm	1097	1108	1211	1320
Magnesium	ppm	3	3	3	3
Zinc	ppm	707	712	714	700
Phosphorus	ppm	609	639	614	696
Barium	ppm	0	0	<1	0
Boron	ppm	<1	<1	1	1

Depot: IND550WIN  
Unique No: 5763753  
Signed: Kevin Marson  
Report Date: 23 Apr 2024

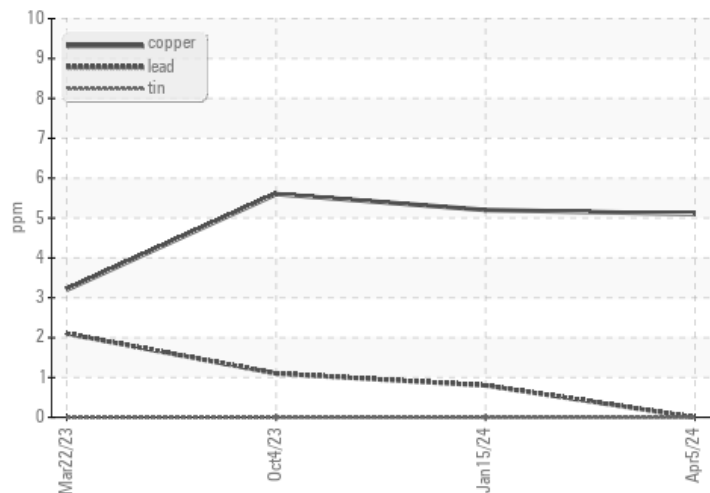


### Graphs

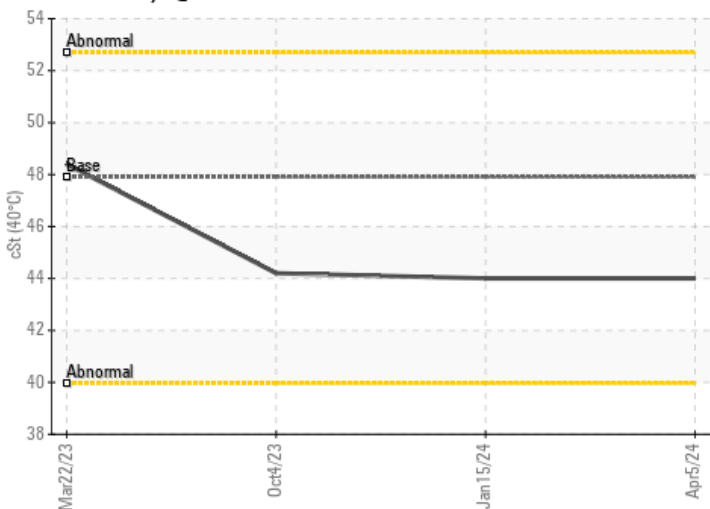
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

