

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C106512-1528 - Hydraulic System

Sample No: LH0288232

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Sample Information

Sample Number	LH0288232	LH0278464	LH0278577	LH0265768
Sample Date	29 Apr 2024	21 Mar 2024	05 Jan 2024	28 Sep 2023
Machine Hours	23144	22529	21976	20758
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

**Gerdau - Mandak Metal Processors Ltd.,**  
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#### Oil Condition

Visc @ 40°C	cSt	44.6	44.9	45.1	43.7
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#### Contamination

Water	%	0.016	NEG	NEG	NEG
Particles >4µm		67861	8500	44052	3430
Particles >6µm		19777	1787	14766	940
Particles >14µm		947	47	1338	34
ISO 4406:1999 (c)		23/21/17	20/18/13	23/21/18	19/17/12
Silicon	ppm	0	0	<1	<1
Sodium	ppm	0	0	0	<1
Potassium	ppm	0	<1	<1	0

#### 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 water content is negligible. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### Wear Metals

Iron	ppm	1	1	1	3
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



#### Additives

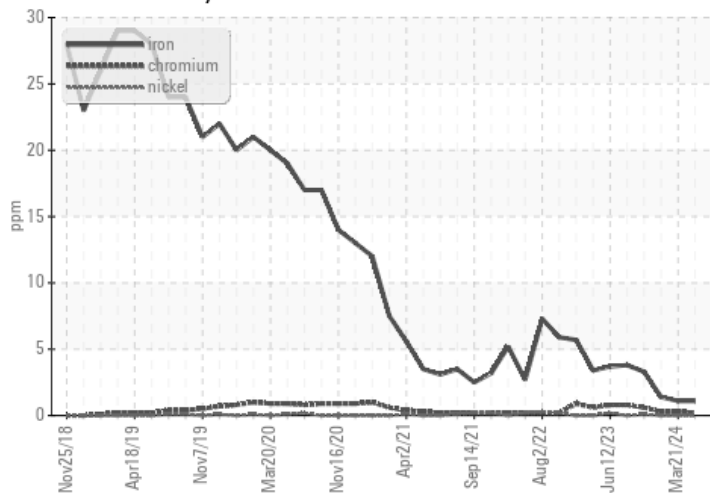
Calcium	ppm	99	100	102	85
Magnesium	ppm	2	3	6	24
Zinc	ppm	841	854	829	730
Phosphorus	ppm	639	644	655	558
Barium	ppm	0	0	0	<1
Boron	ppm	<1	0	0	<1

Depot: MANSEL  
 Unique No: 5774328  
 Signed: Wes Davis  
 Report Date: 06 May 2024

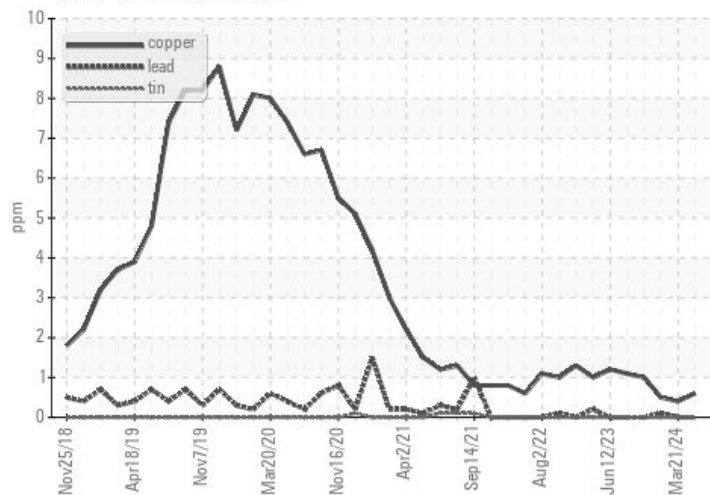


### Graphs

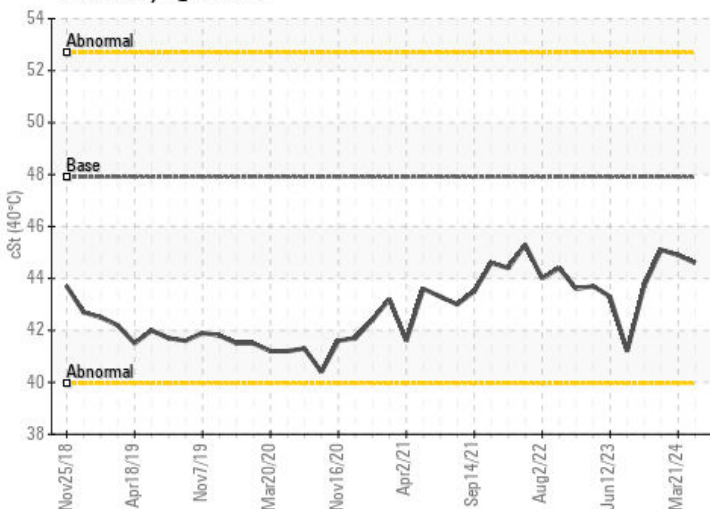
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

