

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C106512-1528 - Hydraulic System

Sample No: LH0234440

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



**Gerdau - Mandak Metal Processors Ltd.,**  
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#### SAMPLE INFORMATION

Sample Number	LH0234440	LH0250043	LH	LH0234360
Sample Date	12 Jun 2023	28 May 2023	09 Nov 2022	15 Sep 2022
Machine Hours	19187	18758	16500	15955
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	43.3	43.7	43.6	44.4
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#### CONTAMINATION

Particles >4µm		2464	15145	6976	1051
Particles >6µm		701	4458	1997	262
Particles >14µm		43	286	161	15
ISO 4406:1999 (c)		18/17/13	21/19/15	20/18/15	17/15/11
Silicon	ppm	<1	1	<1	<1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	<1	<1



#### WEAR METALS

Iron	ppm	4	3	6	6
Copper	ppm	1	1	1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	92	94	106	103
Magnesium	ppm	18	15	2	<1
Zinc	ppm	762	758	844	836
Phosphorus	ppm	629	645	702	685
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	<1	<1

#### Diagnosis

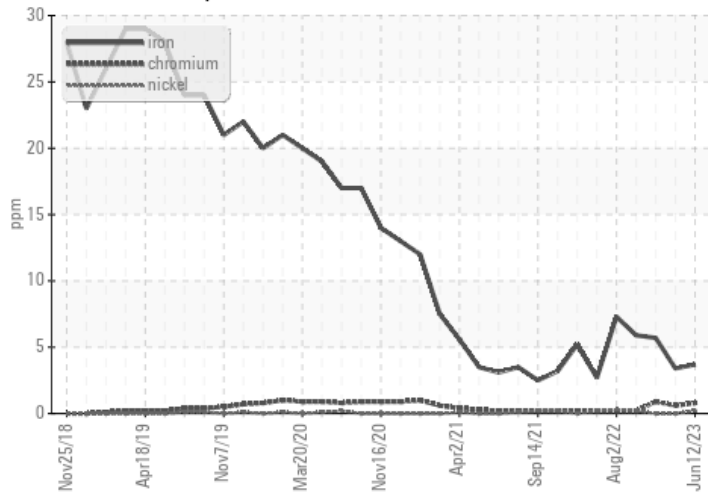
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: MANSEL  
 Unique No: 5606478  
 Signed: Wes Davis  
 Report Date: 13 Jul 2023

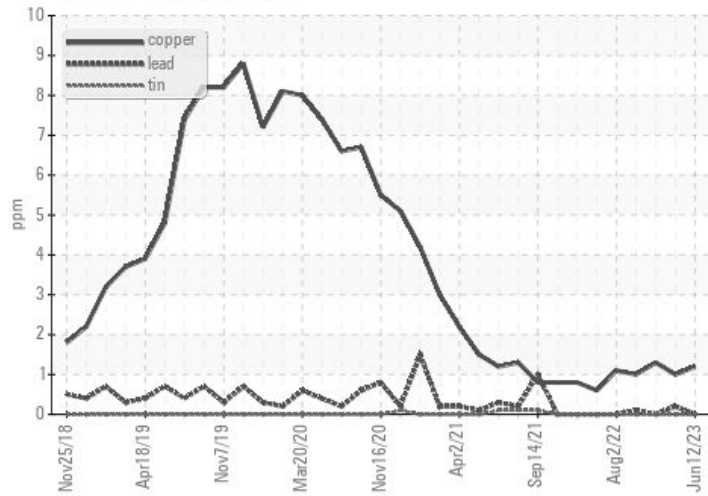


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

