

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R944C 018096-793 - Hydraulic System

Sample No: LH0270436

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

Sample Number	LH0270436	LH0195628	LH0222742	LH0195667
Sample Date	20 Sep 2023	12 Jul 2022	28 Jan 2022	20 Jun 2021
Machine Hours	25291	23799	23267	22261
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

#### GERDAU METALS

5402 OLD RICHMOND RD  
NEPEAN, ON  
CA K2R 1G7  
Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	43.0	41.3	40.7	39.0
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T:  
F:



#### CONTAMINATION

Water	%	---	0.028	---	---
Particles >4µm		4962	62280	64664	16690
Particles >6µm		251	9535	2858	1412
Particles >14µm		6	461	9	42
ISO 4406:1999 (c)		19/15/10	23/20/16	23/19/10	21/18/13
Silicon	ppm	<1	2	2	4
Sodium	ppm	<1	2	2	4
Potassium	ppm	0	<1	8	<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	2	16	16	11
Copper	ppm	<1	4	4	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	<1	5	4	3
Molybdenum	ppm	<1	14	16	27
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	62	492	549	915
Magnesium	ppm	6	194	229	380
Zinc	ppm	436	702	777	1067
Phosphorus	ppm	365	629	683	923
Barium	ppm	0	0	0	<1
Boron	ppm	<1	22	25	41

Depot: GER540NEP  
Unique No: 5645762  
Signed: Wes Davis  
Report Date: 22 Sep 2023

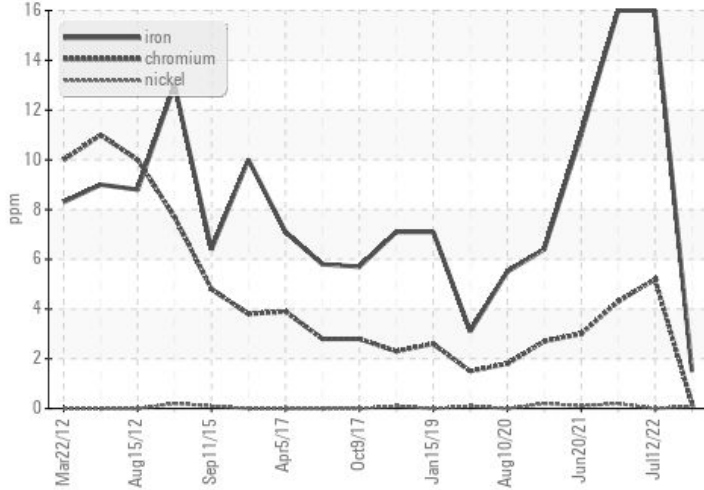
# LIEBHERR

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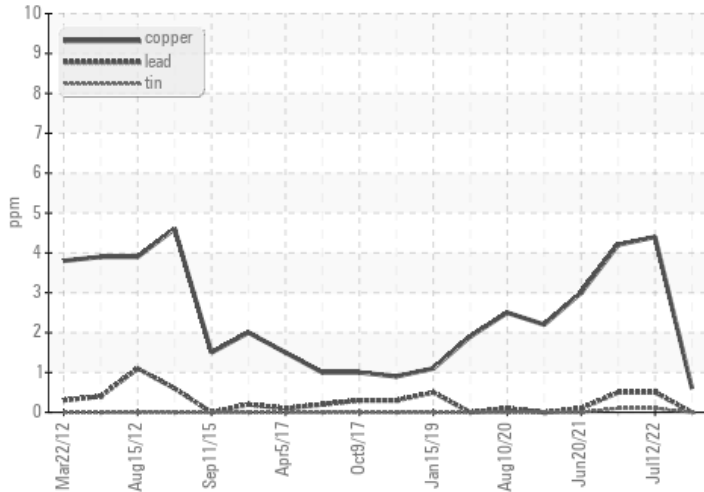


### GRAPHS

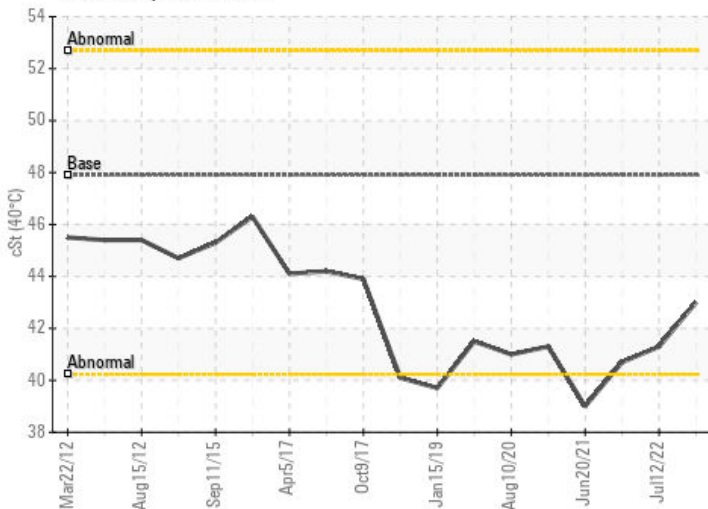
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

