

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [GREEN METALS] LIEBHERR A924C 073594 - Hydraulic System

Sample No: LH0274816

Oil Type: AW HYDRAULIC OIL ISO 46



#### SAMPLE INFORMATION

Sample Number	LH0274816	LH0230731	LH	LH
Sample Date	12 Oct 2023	06 Jun 2022	19 Jan 2022	09 Aug 2021
Machine Hours	22130	20363	19940	19471
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### GREEN METALS CANADA

224 BEARDS LANE  
WOODSTOCK, ON  
CA N4S 7W3

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#### OIL CONDITION

Visc @ 40°C	cSt	42.4	44.0	42.7	43.0
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#### CONTAMINATION

Particles >4µm		976	1789	412	2255
Particles >6µm		320	427	90	429
Particles >14µm		26	29	7	16
ISO 4406:1999 (c)		17/15/12	18/16/12	16/14/10	18/16/11
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	2	1	1	1
Potassium	ppm	2	2	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.



#### WEAR METALS

Iron	ppm	15	10	10	9
Copper	ppm	2	2	2	1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	0	0	0
Chromium	ppm	2	2	2	1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	68	66	67	67
Magnesium	ppm	6	6	6	6
Zinc	ppm	531	512	525	534
Phosphorus	ppm	418	442	445	450
Barium	ppm	<1	0	0	0
Boron	ppm	2	2	2	2

Depot: GRE224WOO

Unique No: 5657996

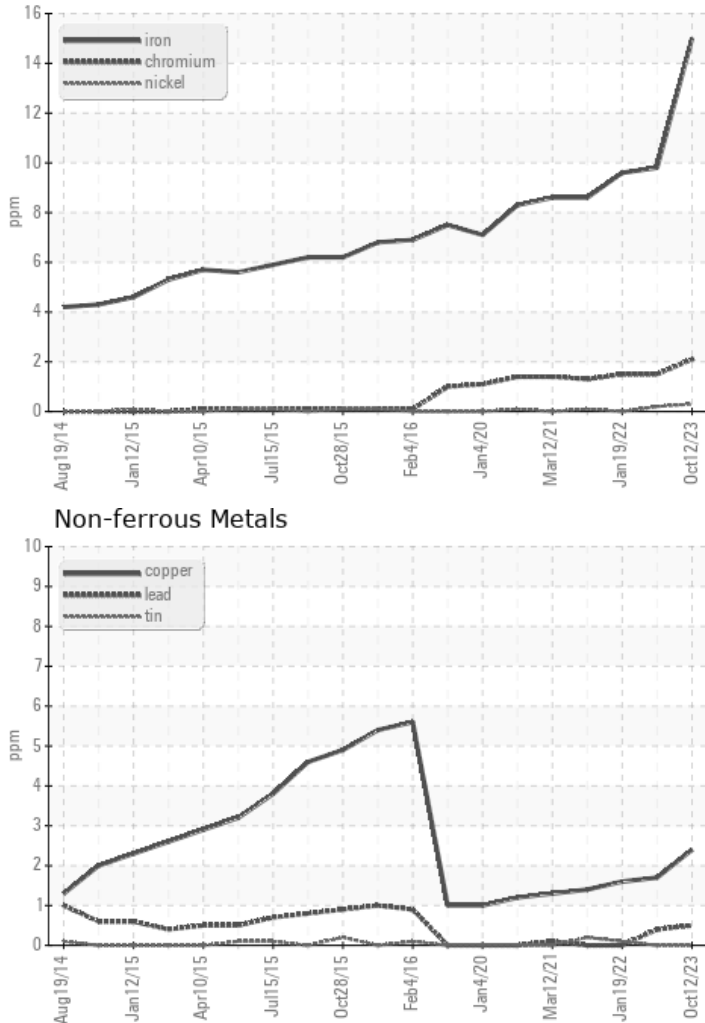
Signed: Wes Davis

Report Date: 16 Oct 2023

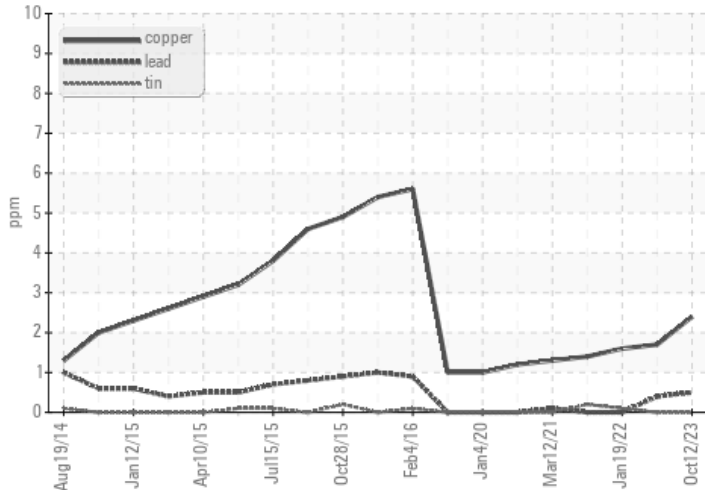


### GRAPHS

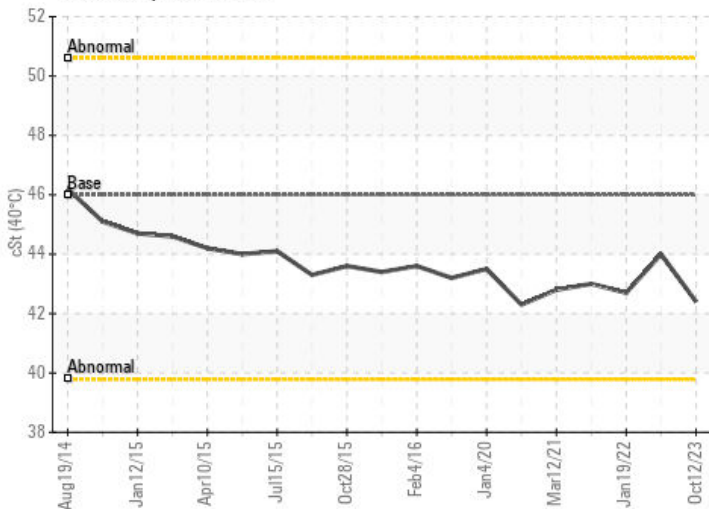
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

