

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 064339 - Hydraulic System

Sample No: LH0280907

Oil Type: {unknown}



#### SAMPLE INFORMATION

Sample Number	LH0280907	LH0259983	LH0238474	LH0230403
Sample Date	04 Jan 2024	01 Jul 2023	13 Oct 2022	29 Apr 2022
Machine Hours	4167	3090	0	1078
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ATTENTION

**Quality Concrete Inc.**  
 35 Lafarge Lane  
 Folly Lake, NS  
 CA B0M 1M0  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	42.1	42.3	42.9	43.8

T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		19102	15737	52815	34637
Particles >6µm		1584	598	10257	1427
Particles >14µm		73	22	217	12
ISO 4406:1999 (c)		21/18/13	21/16/12	23/21/15	22/18/11
Silicon	ppm	19	17	13	8
Sodium	ppm	2	2	2	1
Potassium	ppm	4	4	2	2

#### Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### WEAR METALS

Iron	ppm	21	18	14	9
Copper	ppm	4	4	4	3
Lead	ppm	11	11	9	6
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	8	7	4
Chromium	ppm	1	1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

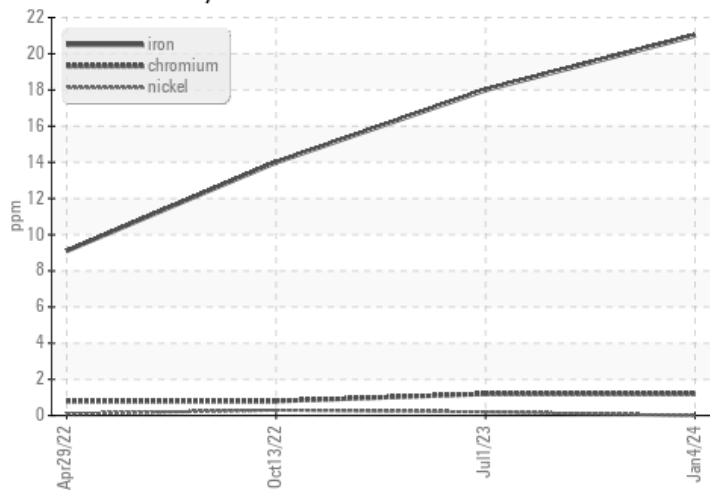
Calcium	ppm	1430	1431	1465	1387
Magnesium	ppm	10	6	5	5
Zinc	ppm	702	718	687	707
Phosphorus	ppm	588	655	645	664
Barium	ppm	0	<1	0	0
Boron	ppm	<1	1	<1	<1

**Depot:** QUAFOL  
**Unique No:** 5708970  
**Signed:** Kevin Marson  
**Report Date:** 12 Jan 2024

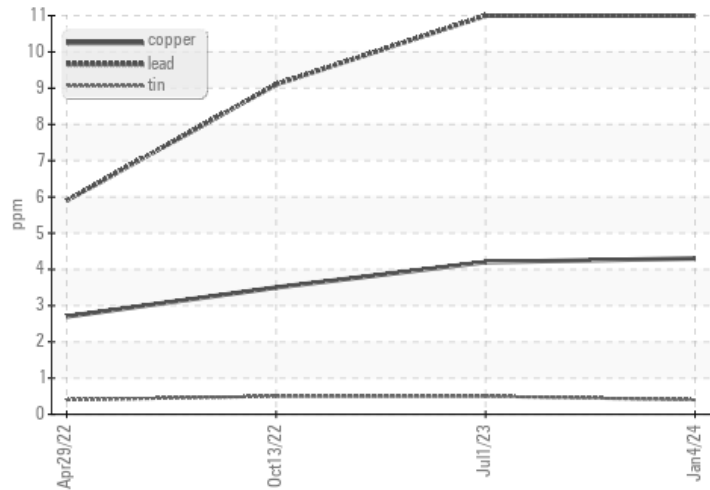


### GRAPHS

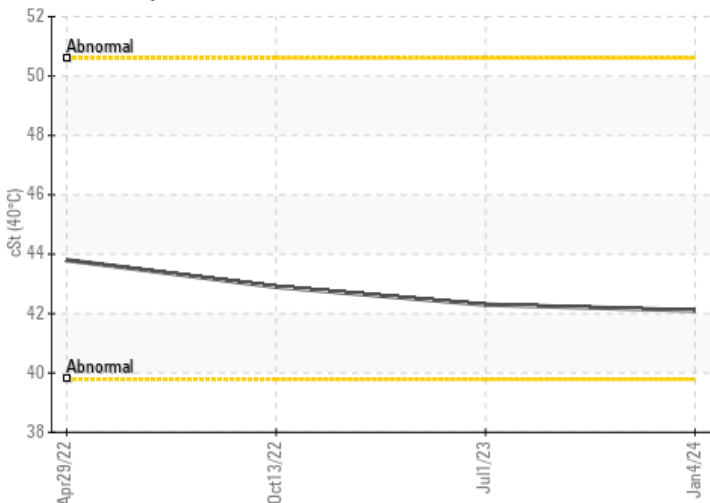
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

