

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### SAKAI SW844 3SW79-40259 - Hydraulic System

Sample No: LH0254422

Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LH0254422	LH0254421	---	---
Sample Date	10 Jun 2023	09 Jun 2023	---	---
Machine Hours	100	100	---	---
Oil Hours	100	100	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

#### FINKBINER EQUIPMENT CO.

15 W 400 N FRONTAGE RD  
BURR RIDGE, IL  
US 60527  
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#### OIL CONDITION

Visc @ 40°C	cSt	● 125	● 125	---	---
Acid Number (AN)	mg KOH/g	● 1.44	● 1.42	---	---



#### CONTAMINATION

Particles >4µm		● 176139	● 164660	---	---
Particles >6µm		● 99733	● 85091	---	---
Particles >14µm		● 3785	● 1293	---	---
ISO 4406:1999 (c)		25/24/19	25/24/17	---	---
Silicon	ppm	● 13	● 13	---	---
Sodium	ppm	● 1	● 1	---	---
Potassium	ppm	● 3	● 3	---	---

#### Diagnosis

We recommend you service the filters on this component if applicable. We advise an early resample to confirm this situation. NOTE: one of two samples received with same ID. Appears to be gear oil. The iron level is abnormal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.



#### WEAR METALS

Iron	ppm	● 33	● 32	---	---
Copper	ppm	● <1	● <1	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 2	● 2	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	2	1	---	---
Nickel	ppm	● <1	● <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

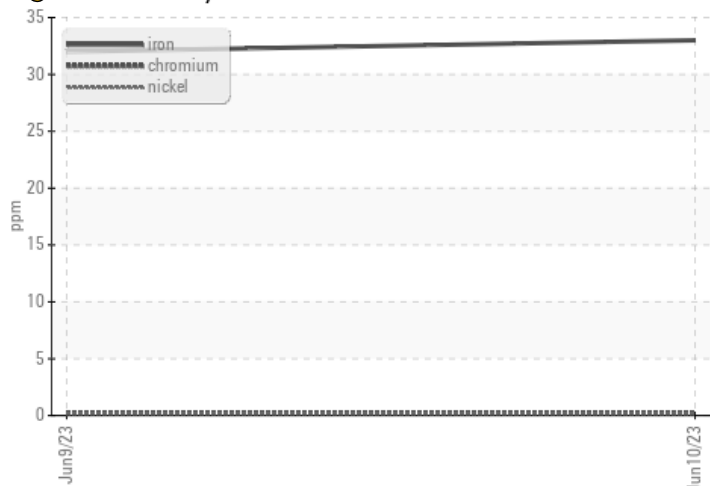
Calcium	ppm	29	31	---	---
Magnesium	ppm	9	9	---	---
Zinc	ppm	18	18	---	---
Phosphorus	ppm	467	458	---	---
Barium	ppm	2	2	---	---
Boron	ppm	0	0	---	---

Depot: LEC0033  
Unique No: 10548668  
Signed: Doug Bogart  
Report Date: 11 Jul 2023

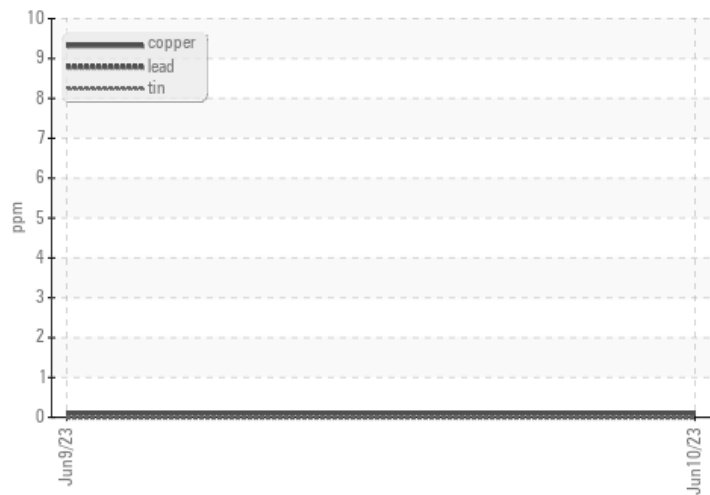


### GRAPHS

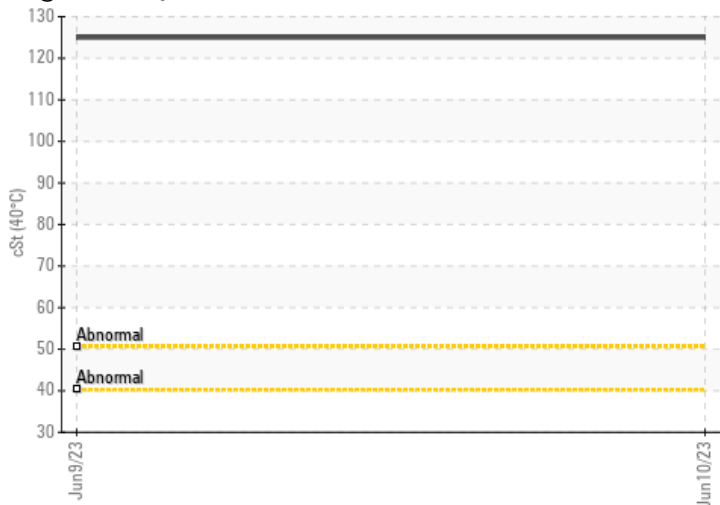
#### ● Ferrous Alloys



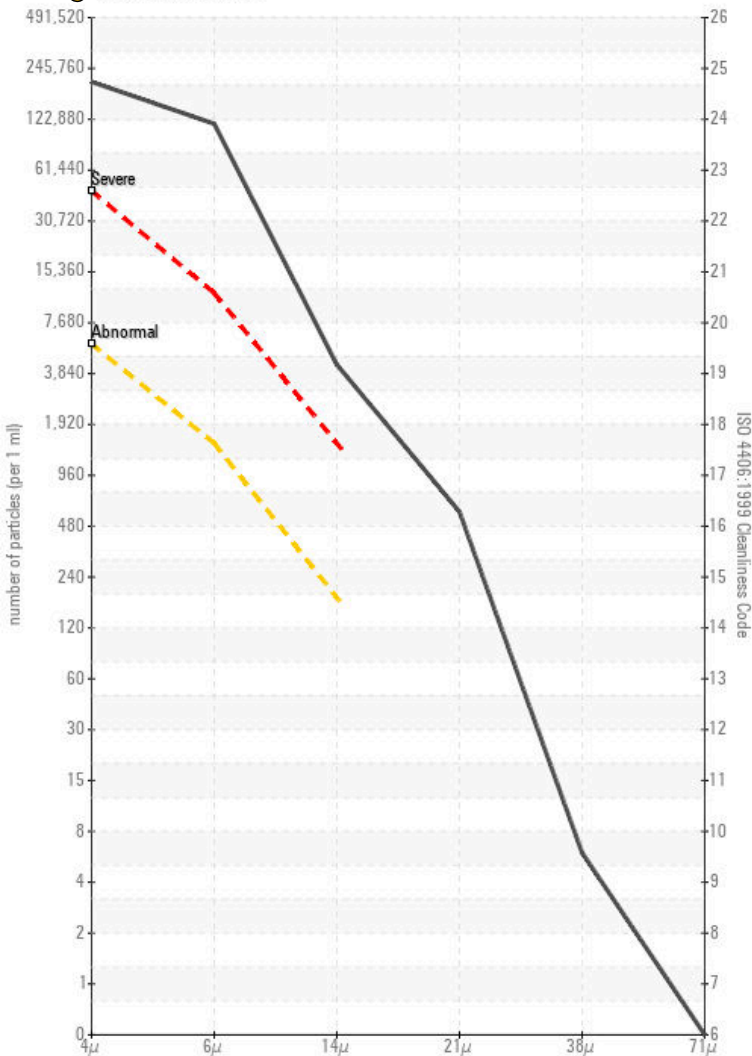
#### Non-ferrous Metals



#### ● Viscosity @ 40°C



#### ● Particle Count



#### Acid Number

