

LIEBHERR

CONSTRUCTION EQUIPMENT



SAKAI SW844 3SW79-40259 - Hydraulic System

Sample No: LH0254421
 Oil Type: NOT GIVEN



SAMPLE INFORMATION

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

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 15 W 400 N FRONTAGE RD
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OIL CONDITION

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



CONTAMINATION

Particles >4µm		● 164660	---	---	---
Particles >6µm		● 85091	---	---	---
Particles >14µm		● 1293	---	---	---
ISO 4406:1999 (c)		25/24/17	---	---	---
Silicon	ppm	● 13	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● 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	● 32	---	---	---
Copper	ppm	● <1	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● <1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	● 0	---	---	---



ADDITIVES

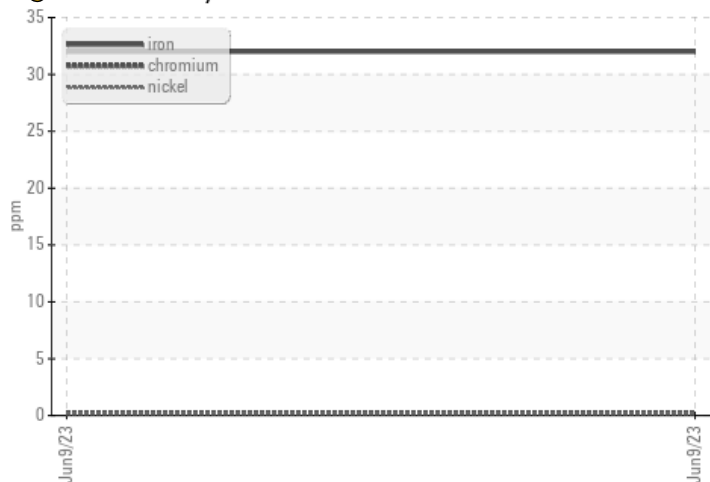
Calcium	ppm	● 31	---	---	---
Magnesium	ppm	● 9	---	---	---
Zinc	ppm	● 18	---	---	---
Phosphorus	ppm	● 458	---	---	---
Barium	ppm	● 2	---	---	---
Boron	ppm	● 0	---	---	---

Depot: LEC0033
 Unique No: 10548666
 Signed: Doug Bogart
 Report Date: 11 Jul 2023

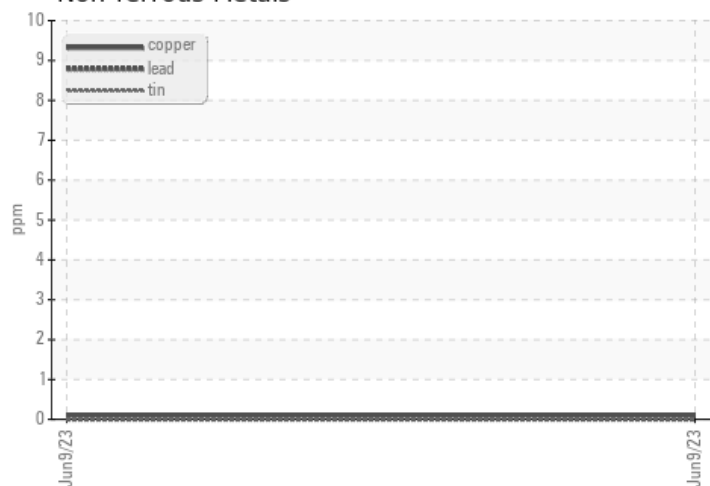


GRAPHS

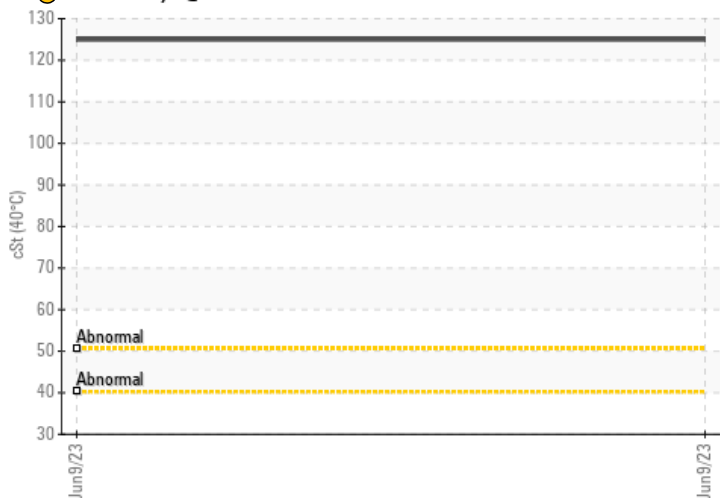
Ferrous Alloys



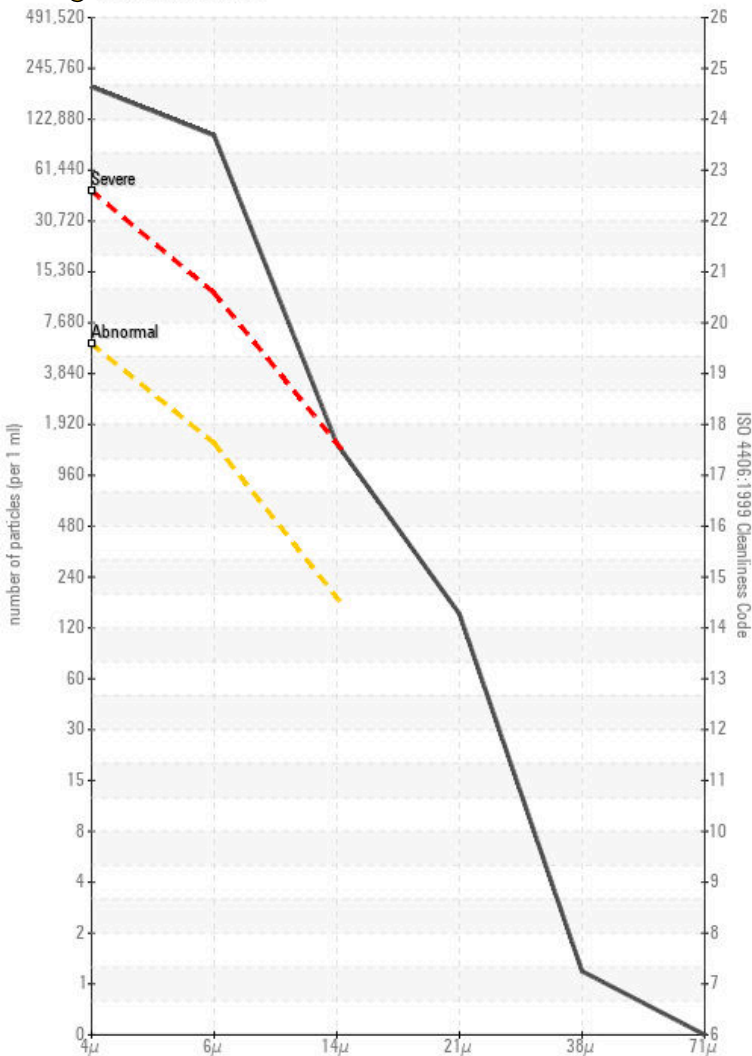
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

