

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR 920K STERLING (S/N NOT GIVEN) - Hydraulic System

Sample No: LH0272828

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LH0272828	---	---	---
Sample Date	02 Feb 2024	---	---	---
Machine Hours	4176	---	---	---
Oil Hours	4176	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

**POTOMAC METALS**  
 42702 DULLES TRADE CT  
 STERLING, VA  
 US 20166  
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 T: (703)430-3667  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	● 42.3	---	---	---
Acid Number (AN)	mg KOH/g	● 0.84	---	---	---



#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 31031	---	---	---
Particles >6µm		● 4487	---	---	---
Particles >14µm		● 50	---	---	---
ISO 4406:1999 (c)		22/19/13	---	---	---
Silicon	ppm	● 7	---	---	---
Sodium	ppm	● 4	---	---	---
Potassium	ppm	● 4	---	---	---



#### WEAR METALS

Iron	ppm	● 67	---	---	---
Copper	ppm	● 9	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 1038	---	---	---
Magnesium	ppm	● 26	---	---	---
Zinc	ppm	● 597	---	---	---
Phosphorus	ppm	● 461	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

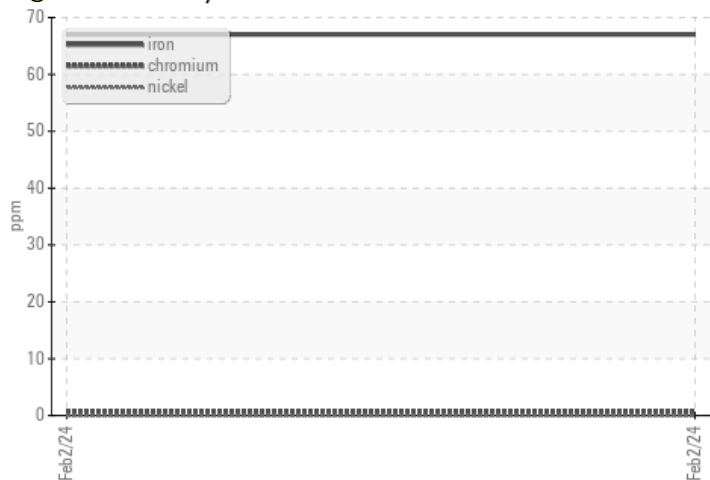
**Diagnosis**  
 No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

**Depot:** POTSTE  
**Unique No:** 10915576  
**Signed:** Don Baldrige  
**Report Date:** 10 Mar 2024

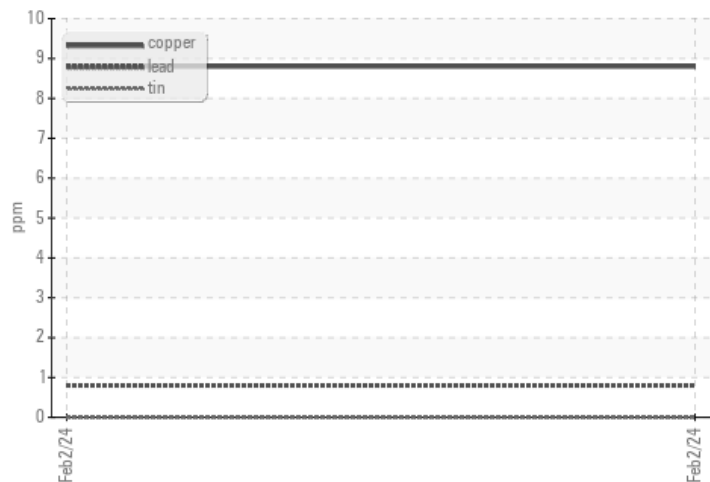


### GRAPHS

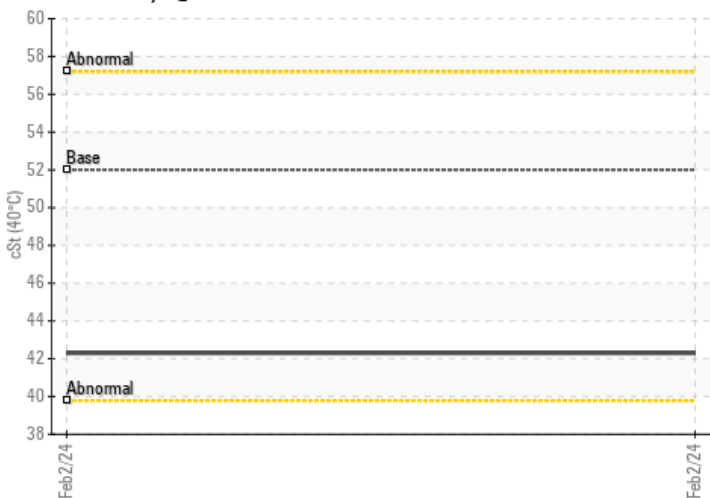
#### ● Ferrous Alloys



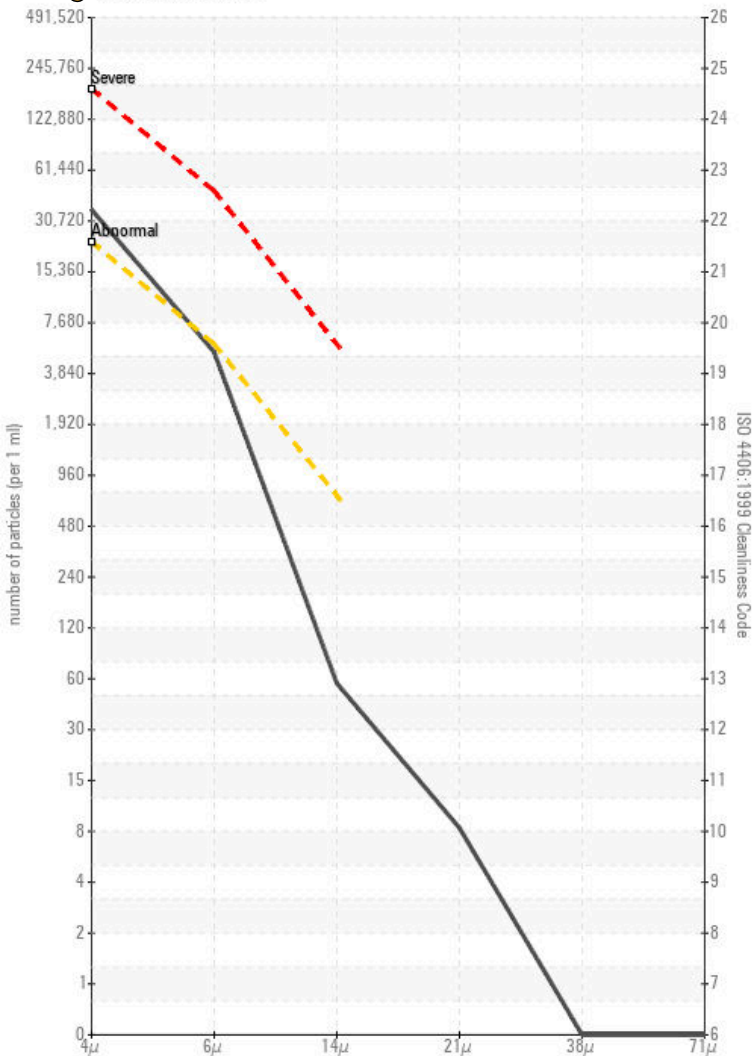
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### ● Particle Count



#### Acid Number

