

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 121879-1217 - Hydraulic System

Sample No: LH0268868

Oil Type: AW HYDRAULIC OIL ISO 68



#### LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE  
NEWPORT NEWS, VA  
US 23607

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#### SAMPLE INFORMATION

Sample Number	LH0268868	---	---	---
Sample Date	27 Feb 2024	---	---	---
Machine Hours	7442	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	42.6	---	---	---
Acid Number (AN)	mg KOH/g	0.76	---	---	---



#### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		5082	---	---	---
Particles >6µm		1309	---	---	---
Particles >14µm		90	---	---	---
ISO 4406:1999 (c)		20/18/14	---	---	---
Silicon	ppm	3	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	3	---	---	---



#### WEAR METALS

Iron	ppm	170	---	---	---
Copper	ppm	8	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---



#### ADDITIVES

Calcium	ppm	1039	---	---	---
Magnesium	ppm	6	---	---	---
Zinc	ppm	658	---	---	---
Phosphorus	ppm	500	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

#### Diagnosis

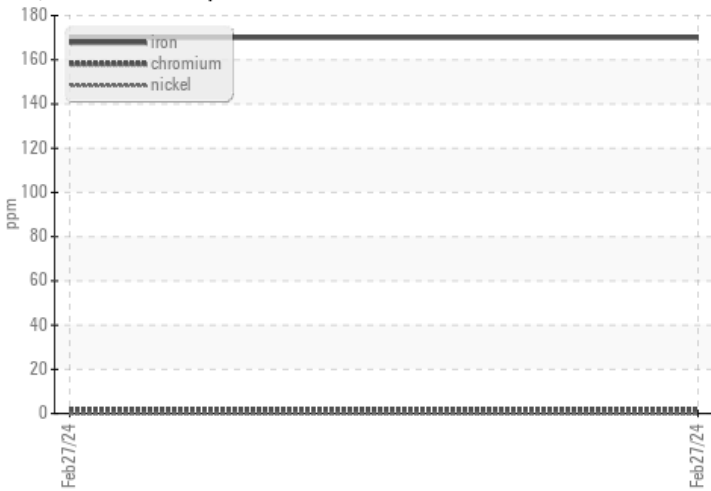
The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Depot: LIEBHERRUS  
Unique No: 10915578  
Signed: Don Baldrige  
Report Date: 10 Mar 2024

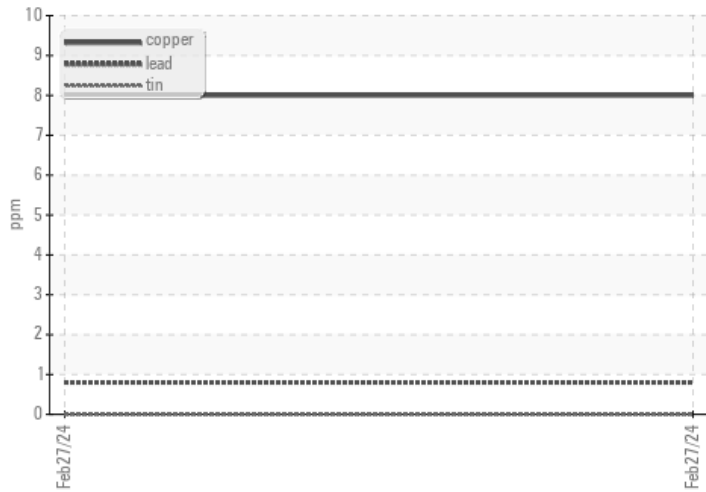


### GRAPHS

#### ● Ferrous Alloys



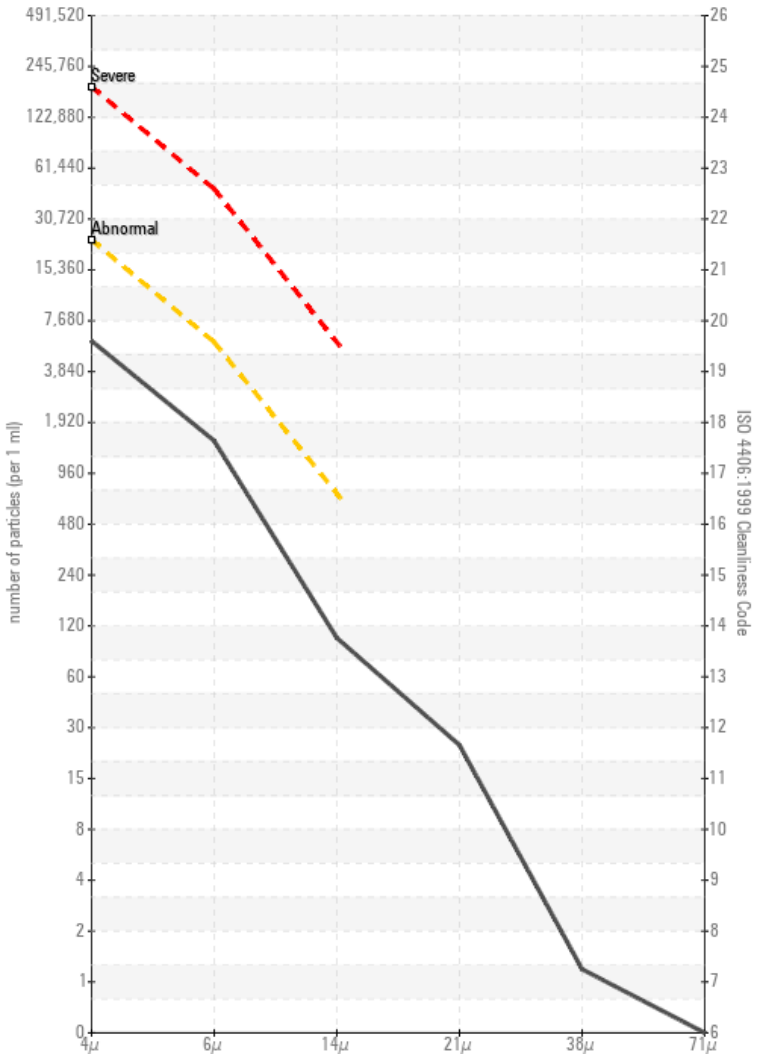
#### Non-ferrous Metals



#### ● Viscosity @ 40°C



#### Particle Count



#### Acid Number

