

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-52139 - Hydraulic System

Sample No: LH0264116

Oil Type: LIEBHERR HYDRAULIC HVI



#### SAMPLE INFORMATION

Sample Number	LH0264116	---	---	---
Sample Date	11 Aug 2023	---	---	---
Machine Hours	2270	---	---	---
Oil Hours	2270	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

**BINDERHOLZ**

260 PIPER LN

ENFIELD, NC

US 27823

Contact: ROBERT BULLOCK

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#### OIL CONDITION

Visc @ 40°C	cSt	● 43.2	---	---	---
Acid Number (AN)	mg KOH/g	● 0.86	---	---	---



#### CONTAMINATION

Particles >4µm		● 6352	---	---	---
Particles >6µm		● 391	---	---	---
Particles >14µm		● 28	---	---	---
ISO 4406:1999 (c)		20/16/12	---	---	---
Silicon	ppm	● 4	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 2	---	---	---

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The lead level is abnormal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### WEAR METALS

Iron	ppm	● 51	---	---	---
Copper	ppm	● 9	---	---	---
Lead	ppm	● 10	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 8	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 1344	---	---	---
Magnesium	ppm	● 9	---	---	---
Zinc	ppm	● 789	---	---	---
Phosphorus	ppm	● 607	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Depot: BINENF

Unique No: 10604755

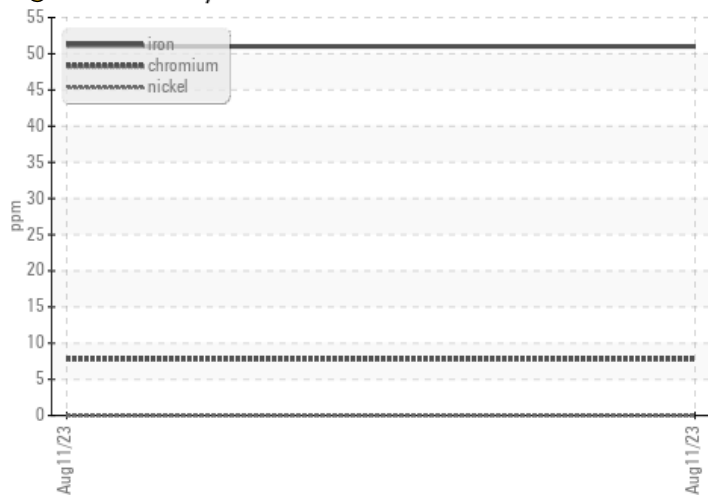
Signed: Jonathan Hester

Report Date: 16 Aug 2023

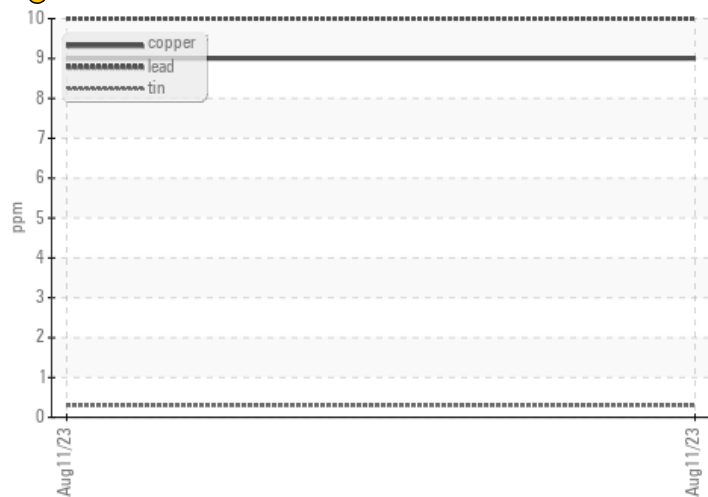


### GRAPHS

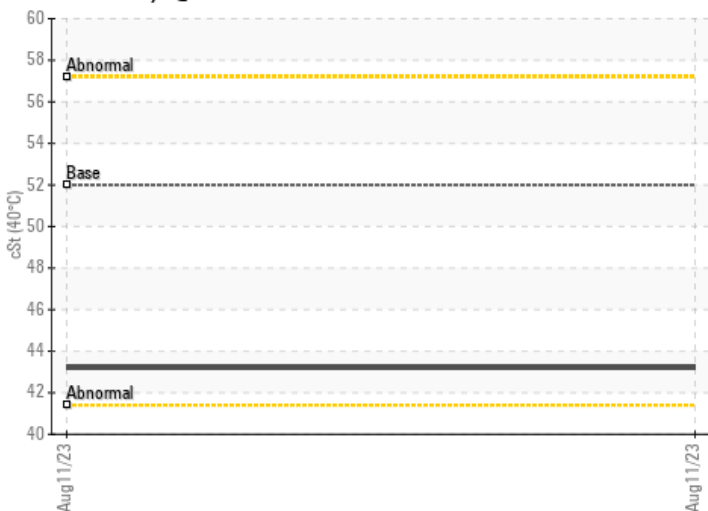
#### ● Ferrous Alloys



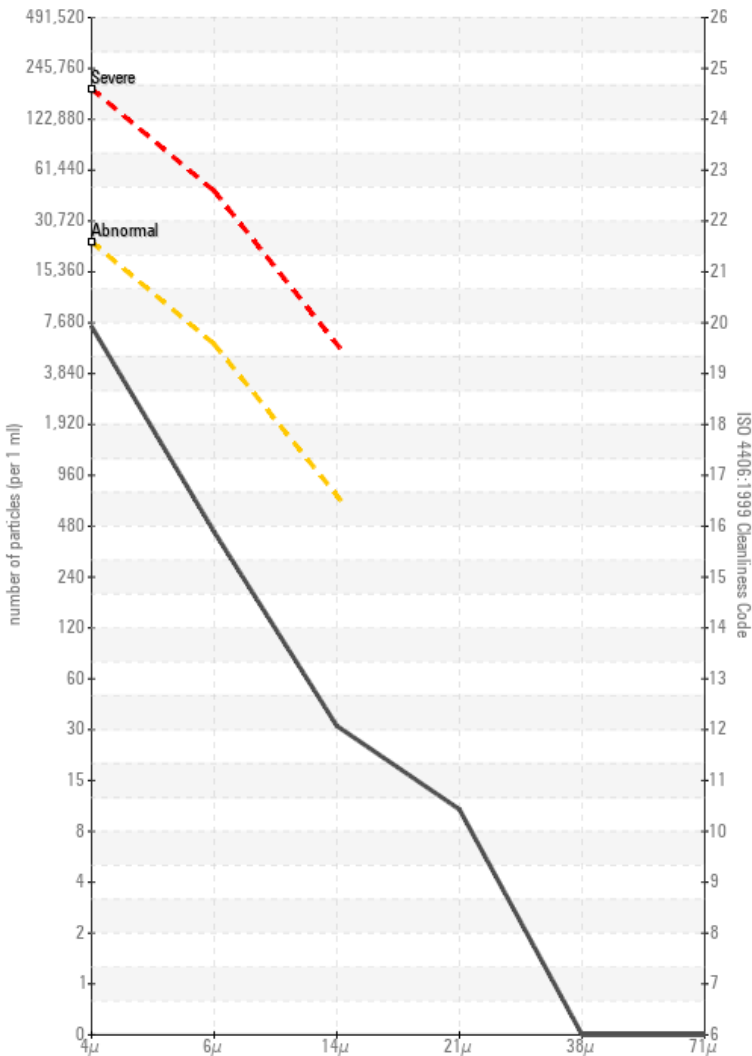
#### ● Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

