LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR R924 053580-1487 - Hydraulic System

Sample No: LH0268709

Oil Type: LIEBHERR HYDRAULIC BASIC 100

LIEBHERR EQUIPMENT SOURCE
8200 FAYETTEVILLE ROAD
RALEIGH, NC
US 27603
Contact: TAYLOR BLALOCK
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T: (757)718-0491
F: (919)329-0084

SAMPLE INFORMATION

Sample Number		**LH0268709**	---	---	---
Sample Date		**06 Feb 2024**	---	---	---
Machine Hours		**987**	---	---	---
Oil Hours		**987**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**43.3**	---	---	---
Acid Number (AN)	mg KOH/g	**1.04**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**11948**	---	---	---
Particles >6µm		**928**	---	---	---
Particles >14µm		**22**	---	---	---
ISO 4406:1999 (c)		**21/17/12**	---	---	---
Silicon	ppm	**4**	---	---	---
Sodium	ppm	**3**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**1**	---	---	---
Copper	ppm	**40**	---	---	---
Lead	ppm	**4**	---	---	---
Tin	ppm	**3**	---	---	---
Aluminum	ppm	**0**	---	---	---
Chromium	ppm	**0**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**1374**	---	---	---
Magnesium	ppm	**0**	---	---	---
Zinc	ppm	**703**	---	---	---
Phosphorus	ppm	**605**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. 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.

Depot: LIEBHERRNC
Unique No: 10869904
Signed: Jonathan Hester
Report Date: 09 Feb 2024

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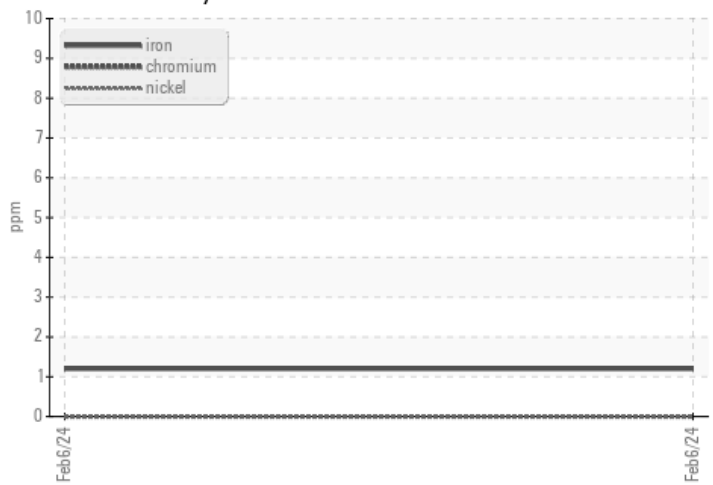
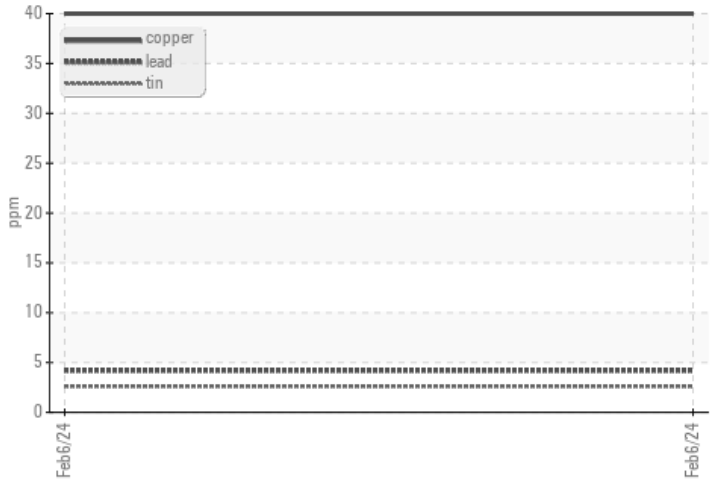
CONSTRUCTION EQUIPMENT

GRAPHS

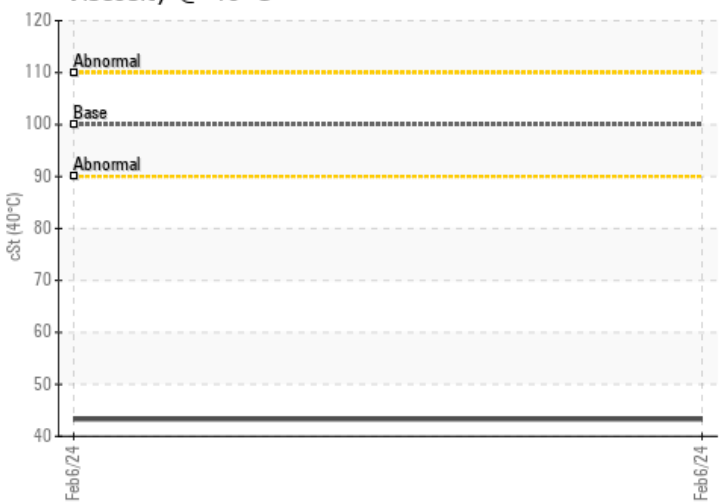
Ferrous Alloys



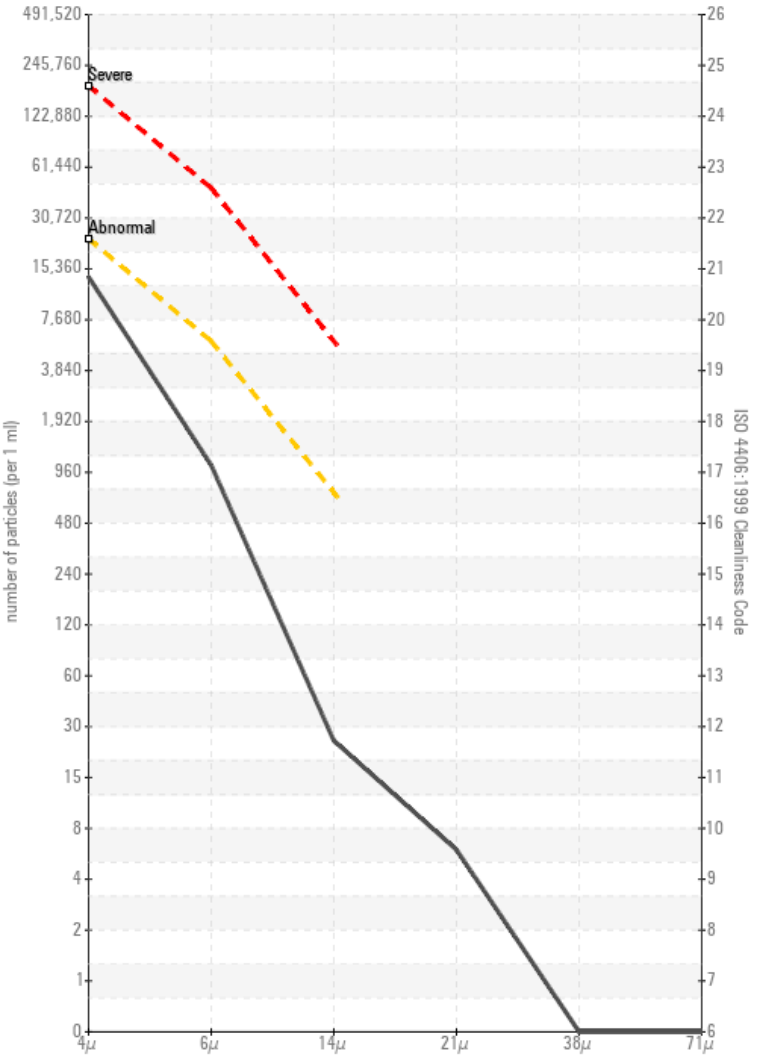
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number