LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR TA230 146110-1513 - Hydraulic System

Sample No: LH0272024
Oil Type: {unknown}

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

Sample Information

Sample Number		**LH0272024**	---	---	---
Sample Date		**23 Apr 2024**	---	---	---
Machine Hours		**0**	---	---	---
Oil Hours		**1278**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**ATTENTION**	---	---	---

Oil Condition

Visc @ 40°C	cSt	**47.0**	---	---	---
Acid Number (AN)	mg KOH/g	**1.32**	---	---	---

Contamination

Water	%	**NEG**	---	---	---
Particles >4µm		**32917**	---	---	---
Particles >6µm		**8522**	---	---	---
Particles >14µm		**474**	---	---	---
ISO 4406:1999 (c)		**22/20/16**	---	---	---
Silicon	ppm	**4**	---	---	---
Sodium	ppm	**2**	---	---	---
Potassium	ppm	**0**	---	---	---

Wear Metals

Iron	ppm	**3**	---	---	---
Copper	ppm	**2**	---	---	---
Lead	ppm	**1**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**1**	---	---	---
Chromium	ppm	**0**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**0**	---	---	---
Vanadium	ppm	**0**	---	---	---

Additives

Calcium	ppm	**1394**	---	---	---
Magnesium	ppm	**3**	---	---	---
Zinc	ppm	**707**	---	---	---
Phosphorus	ppm	**643**	---	---	---
Barium	ppm	**<1**	---	---	---
Boron	ppm	**0**	---	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a light 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 suitable for further service.

Depot: LIEBHERRNC
Unique No: 10995700
Signed: Wes Davis
Report Date: 26 Apr 2024

Submitted By: TAYLOR BLALOCK

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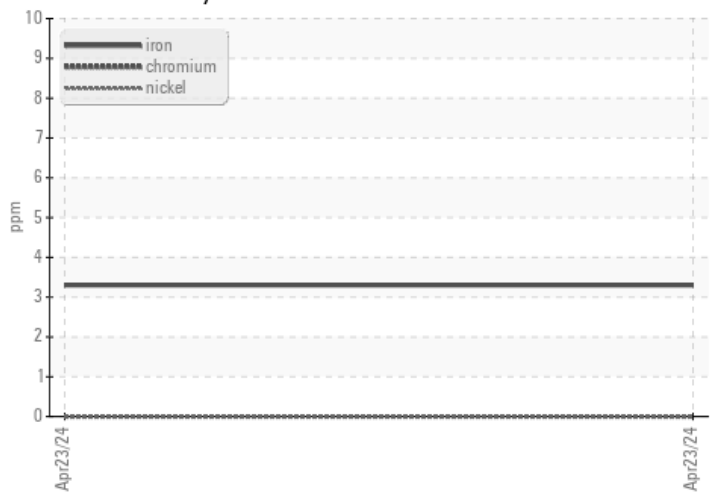
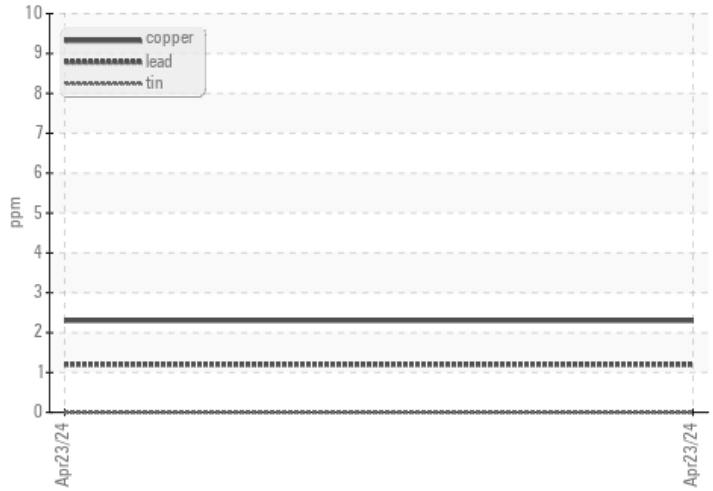
Graphs

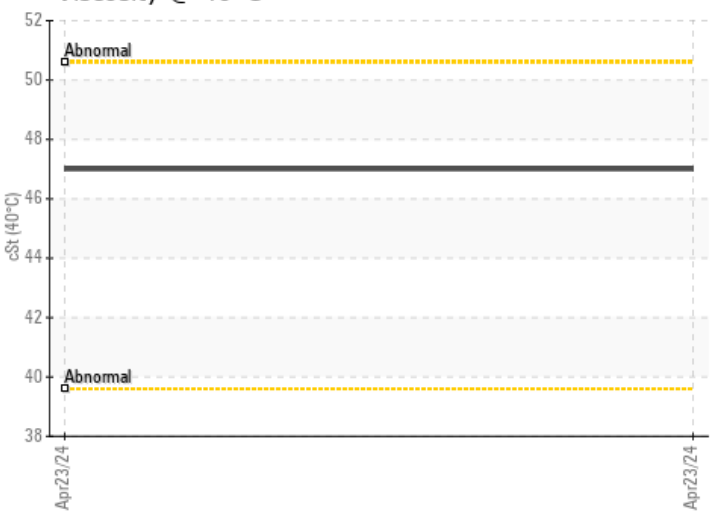
Ferrous Alloys



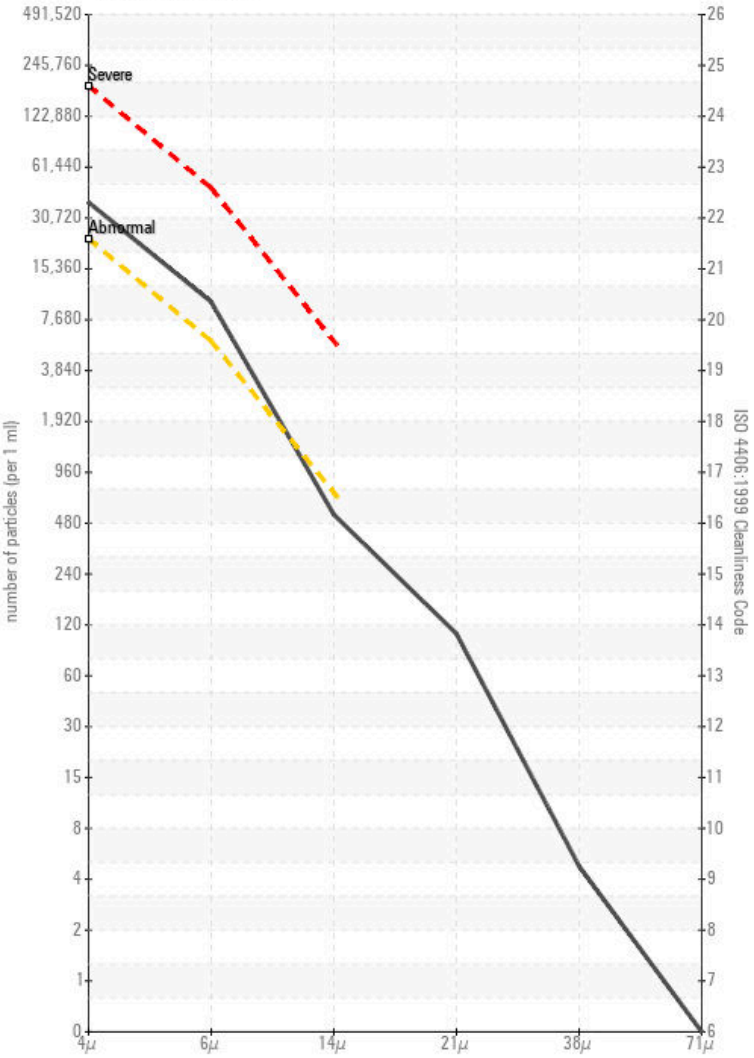
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number