LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR TA230 144017-1513 - Hydraulic System

Sample No: LH0268553

Oil Type: LIEBHERR HYDRAULIC HVI

LIEBHERR EQUIPMENT SOURCE
8200 FAYETTEVILLE ROAD
RALEIGH, NC
US 27603
Contact: TRAVIS EGAN
travis.egan@liebherr.com
T:
F: (919)329-0084

SAMPLE INFORMATION

Sample Number		**LH0268553**	---	---	---
Sample Date		**11 Oct 2023**	---	---	---
Machine Hours		**1356**	---	---	---
Oil Hours		**1356**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

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

CONTAMINATION

Particles >4µm		**3157**	---	---	---
Particles >6µm		**896**	---	---	---
Particles >14µm		**67**	---	---	---
ISO 4406:1999 (c)		**19/17/13**	---	---	---
Silicon	ppm	**3**	---	---	---
Sodium	ppm	**1**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	**1288**	---	---	---
Magnesium	ppm	**0**	---	---	---
Zinc	ppm	**674**	---	---	---
Phosphorus	ppm	**569**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: LIEBHERRNC
Unique No: 10696850
Signed: Wes Davis
Report Date: 17 Oct 2023

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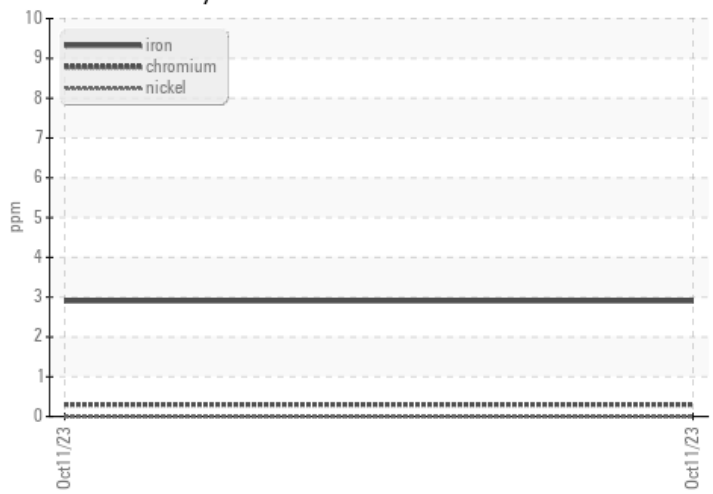
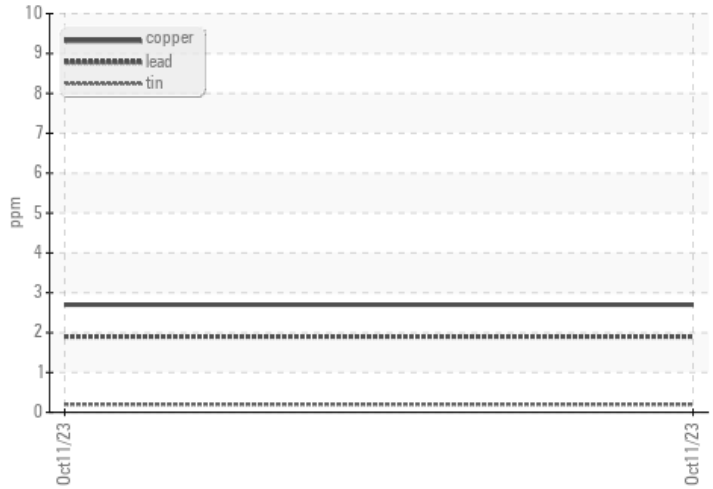
GRAPHS

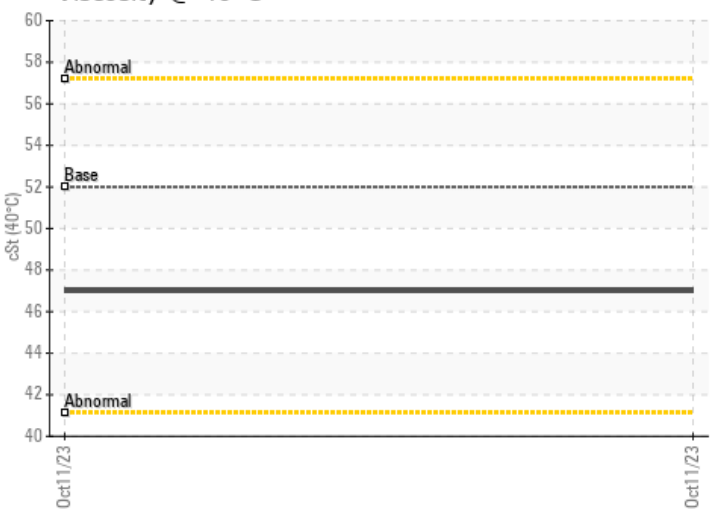
Ferrous Alloys



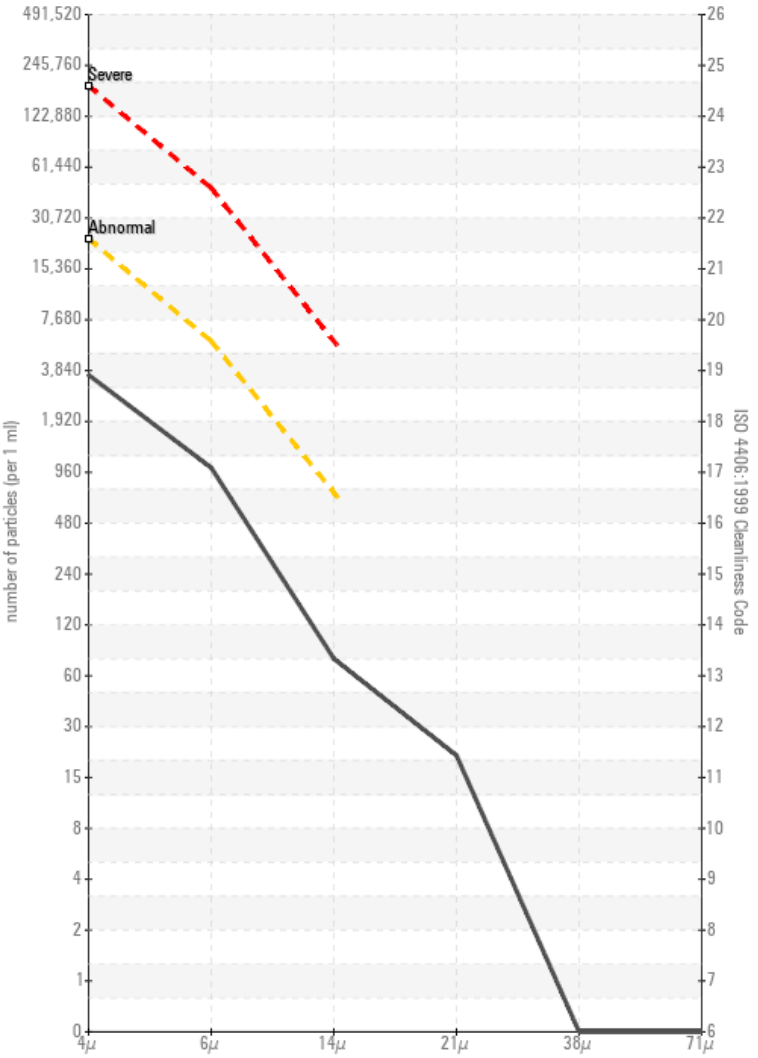
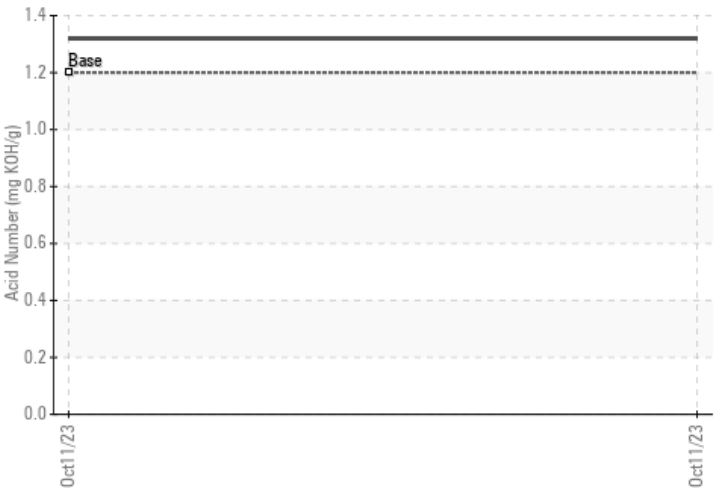
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number