

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R966 31602 (S/N 1783-53867) - Hydraulic System

Sample No: LH0293225

Oil Type: LIEBHERR HYDRAULIC HVI



Sample Information

Sample Number	LH0293225	---	---	---
Sample Date	26 Jun 2024	---	---	---
Machine Hours	955	---	---	---
Oil Hours	955	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
 Contact: SHERWOOD LUCAS
 sherwood.lucas@liebherr.com
 T:
 F: (919)329-0084



Oil Condition

Visc @ 40°C	cSt	44.6	---	---	---
Acid Number (AN)	mg KOH/g	1.24	---	---	---



Contamination

Water	%	NEG	---	---	---
Particles >4µm		16262	---	---	---
Particles >6µm		3667	---	---	---
Particles >14µm		189	---	---	---
ISO 4406:1999 (c)		21/19/15	---	---	---
Silicon	ppm	4	---	---	---
Sodium	ppm	<1	---	---	---
Potassium	ppm	2	---	---	---

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.



Wear Metals

Iron	ppm	18	---	---	---
Copper	ppm	3	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	1	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	863	---	---	---
Magnesium	ppm	6	---	---	---
Zinc	ppm	616	---	---	---
Phosphorus	ppm	443	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	<1	---	---	---

Depot: LIEBHERRNC

Unique No: 11101642

Signed: Wes Davis

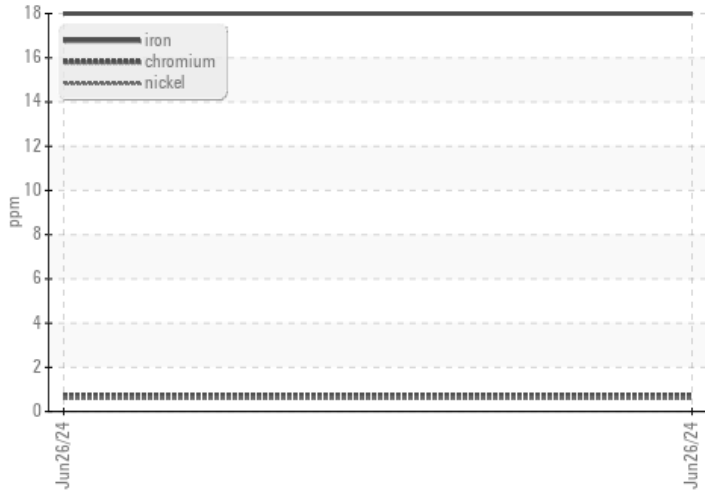
Report Date: 01 Jul 2024

Submitted By: SHERWOOD LUCAS

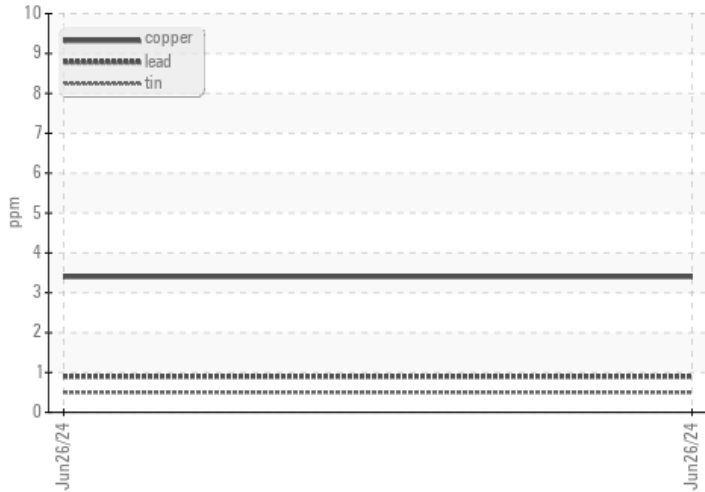


Graphs

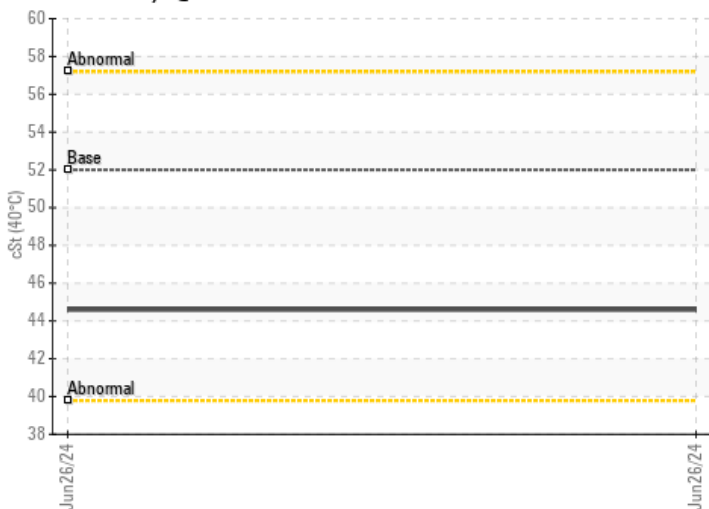
Ferrous Alloys



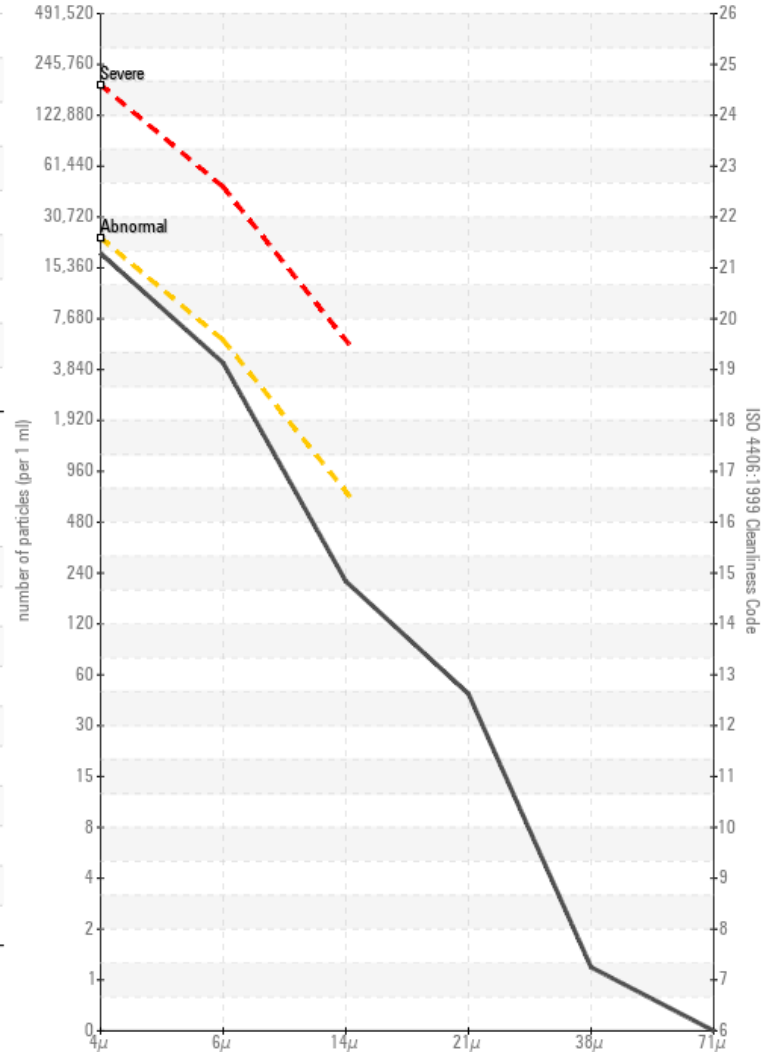
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

