

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80C 1529-156494 - Hydraulic System

Sample No: LH0286311

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0286311	---	---	---
Sample Date	05 Mar 2024	---	---	---
Machine Hours	1000	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

C AND B EQUIPMENT, LLC
 4831 US-42
 GHENT, KY
 US 41045
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	● 43.3	---	---	---
Acid Number (AN)	mg KOH/g	● 1.27	---	---	---

T:
F:



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 17840	---	---	---
Particles >6µm		● 3678	---	---	---
Particles >14µm		● 155	---	---	---
ISO 4406:1999 (c)		21/19/14	---	---	---
Silicon	ppm	● 43	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 0	---	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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	● 8	---	---	---
Copper	ppm	● 2	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

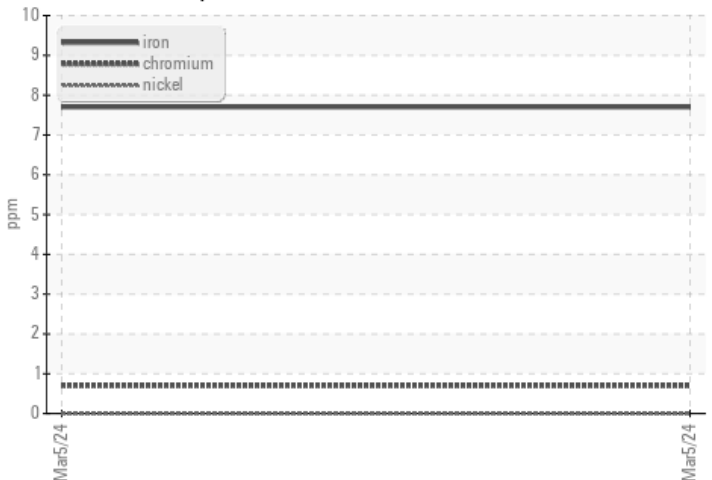
Calcium	ppm	● 1209	---	---	---
Magnesium	ppm	● 7	---	---	---
Zinc	ppm	● 725	---	---	---
Phosphorus	ppm	● 626	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Depot: CANGHE
Unique No: 10930362
Signed: Jonathan Hester
Report Date: 21 Mar 2024

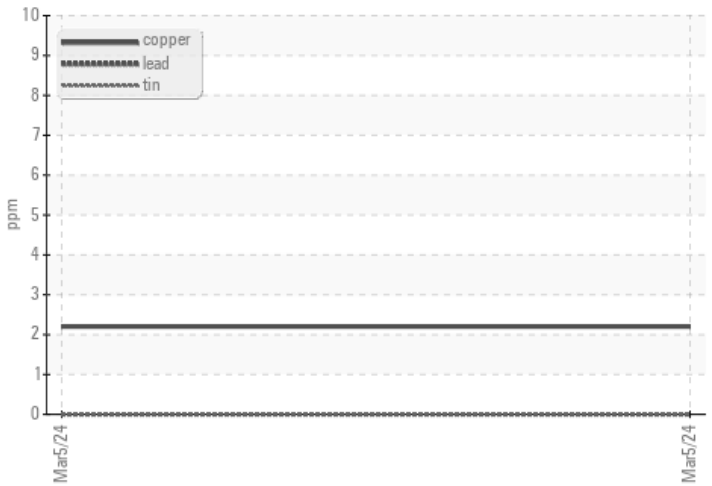


GRAPHS

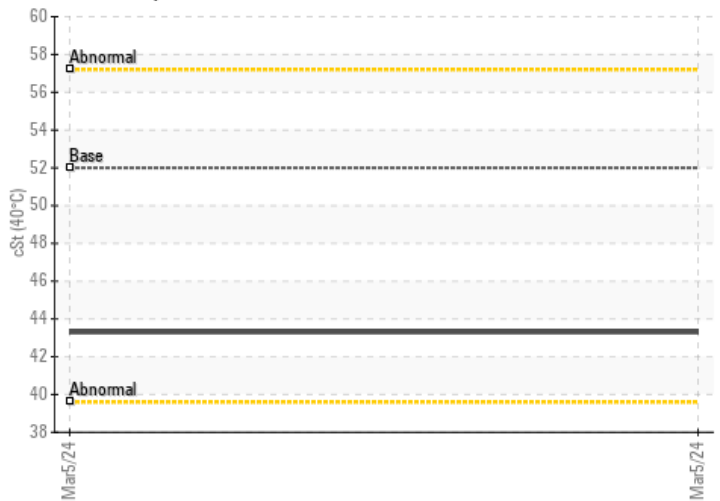
Ferrous Alloys



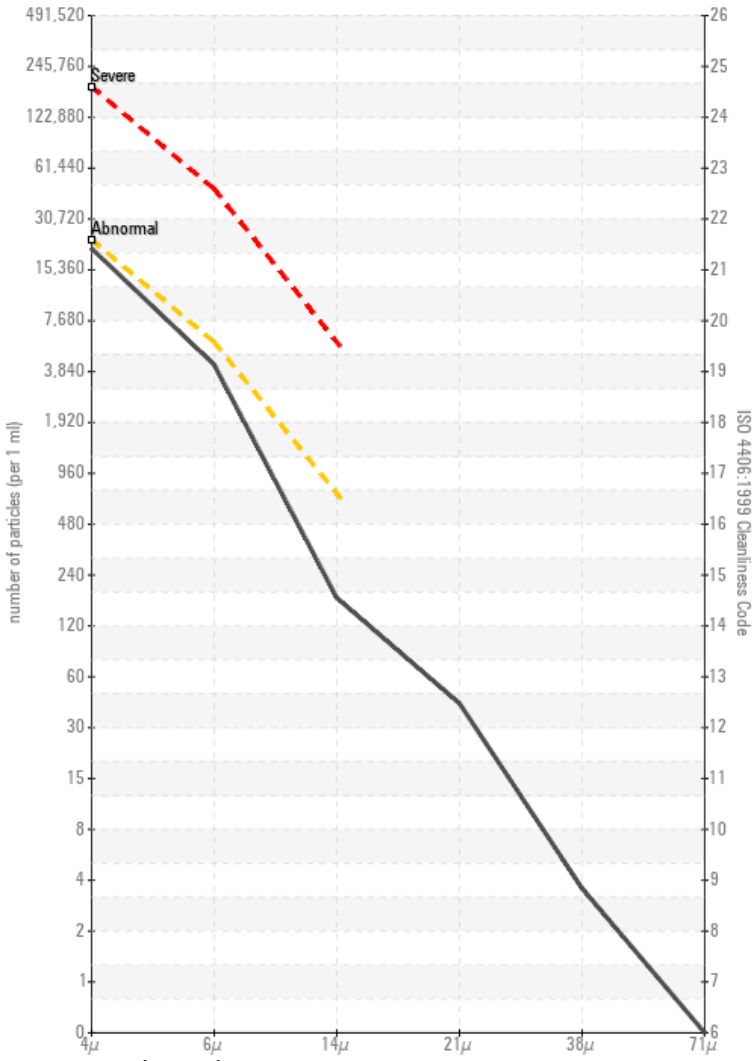
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

