

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 042899-1464 - Hydraulic System

Sample No: LH0258943

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0258943	LH0220861	LHMC117345	---
Sample Date	19 Oct 2023	08 Mar 2022	19 Feb 2018	---
Machine Hours	6240	3115	1156	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	N/A	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

LIEBHERR EQUIPMENT SOURCE

10119 RESIDENCY ROAD
MANASSAS, VA
US 20110
Contact: TOM HEINEY
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T: (703)392-0111
F: (703)331-5604



OIL CONDITION

Visc @ 40°C	cSt	48.0	46.4	46.46	---
Acid Number (AN)	mg KOH/g	0.65	0.60	0.619	---



CONTAMINATION

Particles >4µm		5912	78763	58511	---
Particles >6µm		488	21724	7035	---
Particles >14µm		22	1912	139	---
ISO 4406:1999 (c)		20/16/12	23/22/18	23/20/14	---
Silicon	ppm	2	4	4	---
Sodium	ppm	<1	0	2	---
Potassium	ppm	0	2	1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 acceptable for the time in service.



WEAR METALS

Iron	ppm	2	9	7	---
Copper	ppm	0	4	4	---
Lead	ppm	0	6	6	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	0	2	2	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

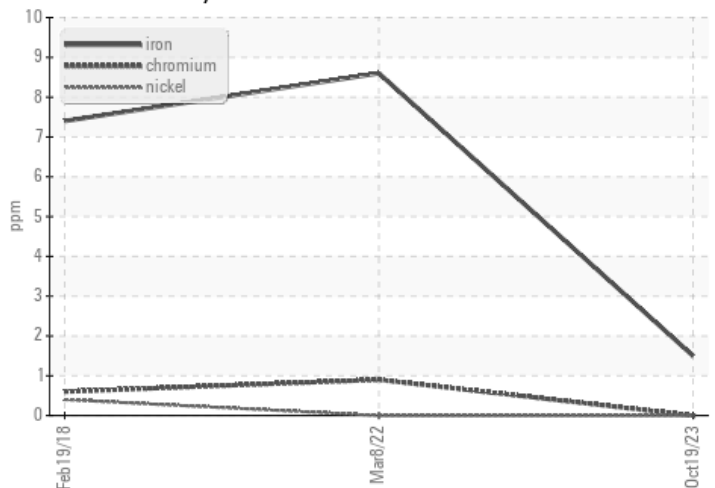
Calcium	ppm	1200	1359	1336	---
Magnesium	ppm	9	8	8	---
Zinc	ppm	454	501	447	---
Phosphorus	ppm	418	408	362	---
Barium	ppm	0	0	0	---
Boron	ppm	0	3	5	---

Depot: LIEBHERRVA
Unique No: 10735966
Signed: Angela Borella
Report Date: 10 Nov 2023

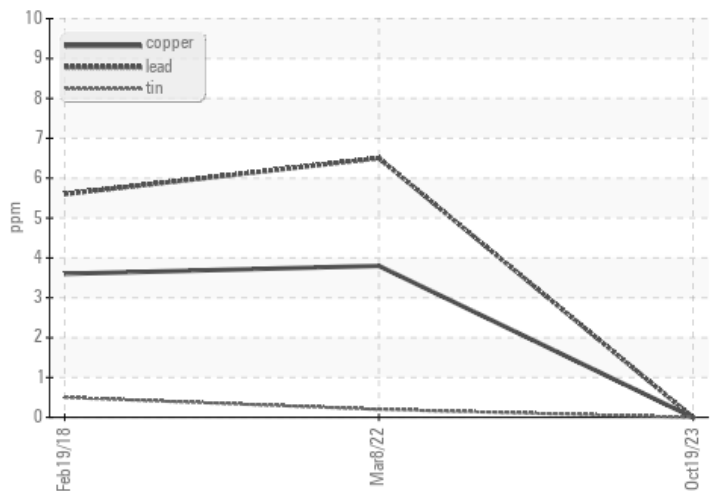


GRAPHS

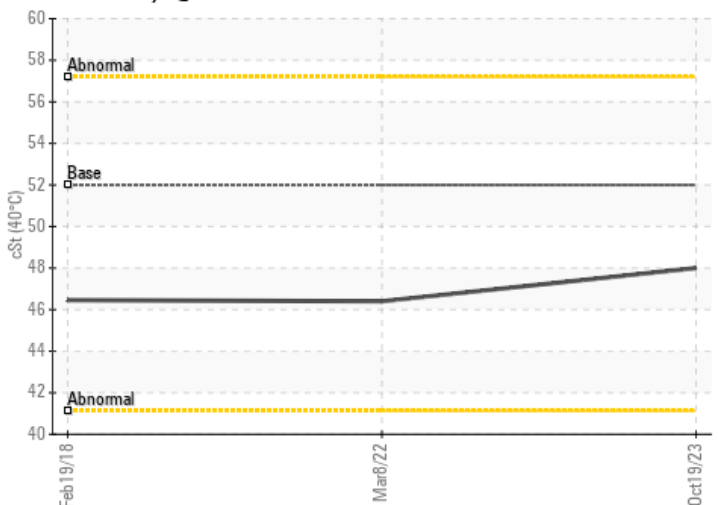
Ferrous Alloys



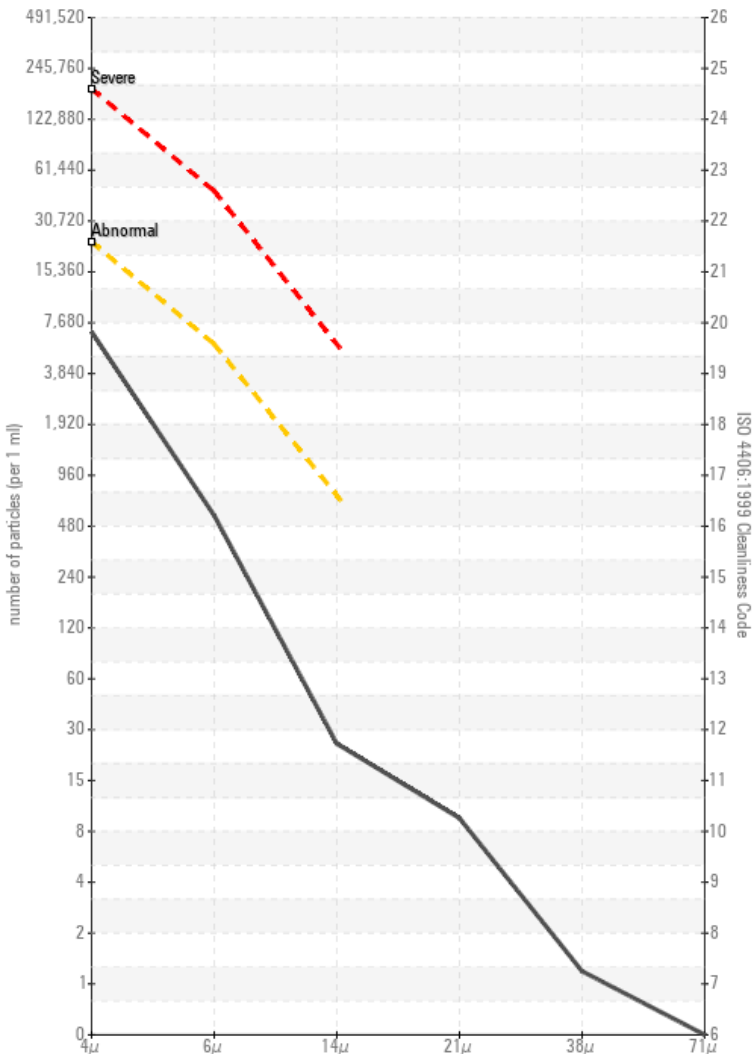
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

