

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR766 027905-1681 - Hydraulic System

Sample No: LH0254466

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH0254466	LH0254460	---	---
Sample Date	15 Feb 2024	13 Feb 2024	---	---
Machine Hours	301	346	---	---
Oil Hours	301	346	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

HEAVY MACHINES INC.

3930 EAST RAINES RD
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OIL CONDITION

Visc @ 40°C	cSt	47.1	47.0	---	---
Acid Number (AN)	mg KOH/g	1.30	1.26	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		9594	6623	---	---
Particles >6µm		1368	2274	---	---
Particles >14µm		80	145	---	---
ISO 4406:1999 (c)		20/18/13	20/18/14	---	---
Silicon	ppm	7	5	---	---
Sodium	ppm	3	0	---	---
Potassium	ppm	0	4	---	---

Diagnosis

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. 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	3	2	---	---
Copper	ppm	5	3	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	0	1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

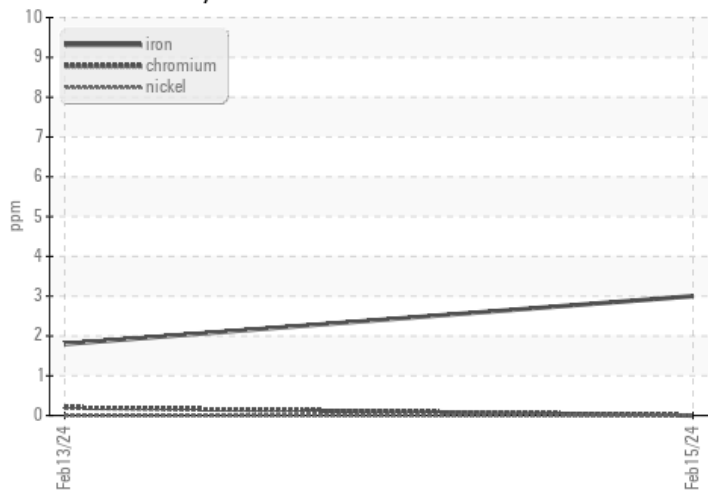
Calcium	ppm	1224	1286	---	---
Magnesium	ppm	1	8	---	---
Zinc	ppm	601	706	---	---
Phosphorus	ppm	577	608	---	---
Barium	ppm	0	3	---	---
Boron	ppm	0	0	---	---

Depot: LEC0051
Unique No: 10898298
Signed: Wes Davis
Report Date: 27 Feb 2024

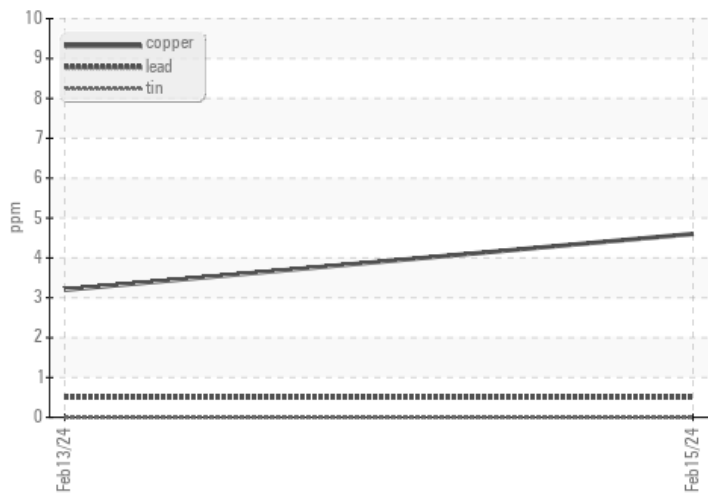


GRAPHS

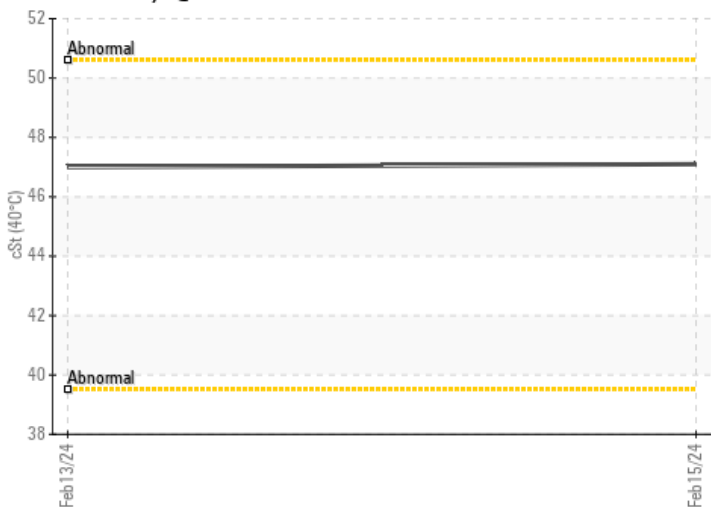
Ferrous Alloys



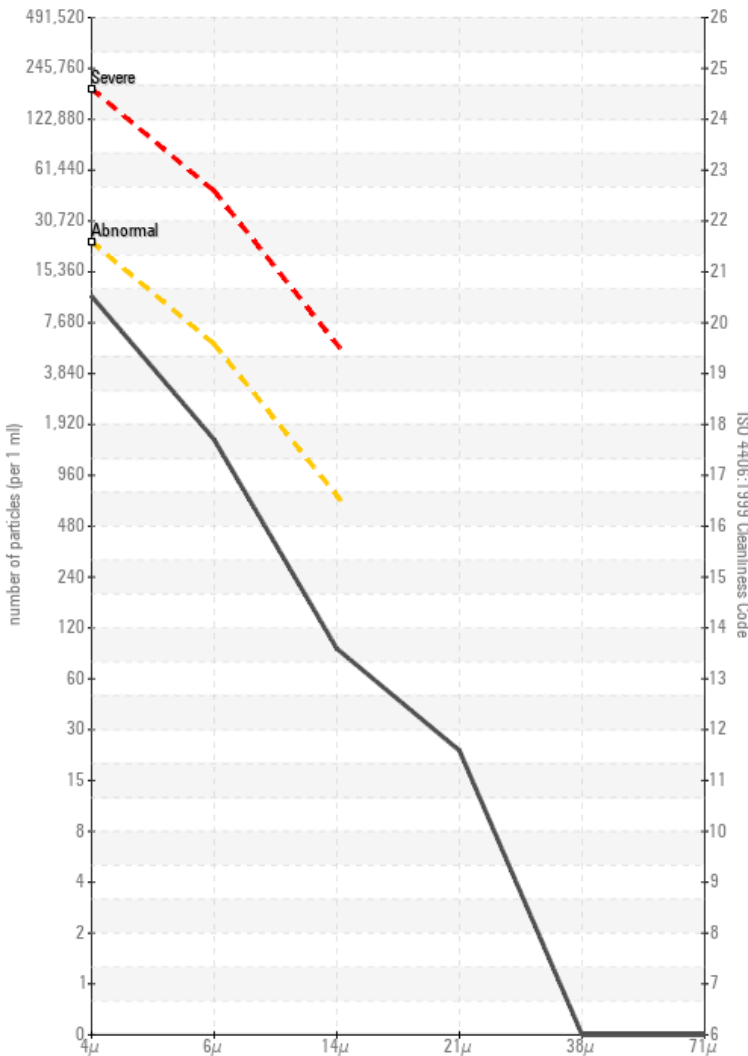
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

