

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C 154373-1527 - Hydraulic System

Sample No: LH0279818

Oil Type: AW HYDRAULIC OIL ISO 46



Sample Information

Sample Number	LH0279818	LH0279825	---	---
Sample Date	25 Jun 2024	21 Apr 2024	---	---
Machine Hours	1000	2000	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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Oil Condition

Visc @ 40°C	cSt	● 44.0	● 45.1	---	---
Acid Number (AN)	mg KOH/g	● 1.08	● 0.51	---	---



Contamination

Water	%	NEG	NEG	---	---
Particles >4µm		● 13884	● 6934	---	---
Particles >6µm		● 3494	● 676	---	---
Particles >14µm		● 155	● 32	---	---
ISO 4406:1999 (c)		21/19/14	20/17/12	---	---
Silicon	ppm	● 3	● 0	---	---
Sodium	ppm	● 1	● <1	---	---
Potassium	ppm	● 1	● <1	---	---

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	● 9	● 6	---	---
Copper	ppm	● 4	● 1	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● <1	● 0	---	---
Chromium	ppm	● 3	● 9	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	● 0	---	---
Vanadium	ppm	0	0	---	---



Additives

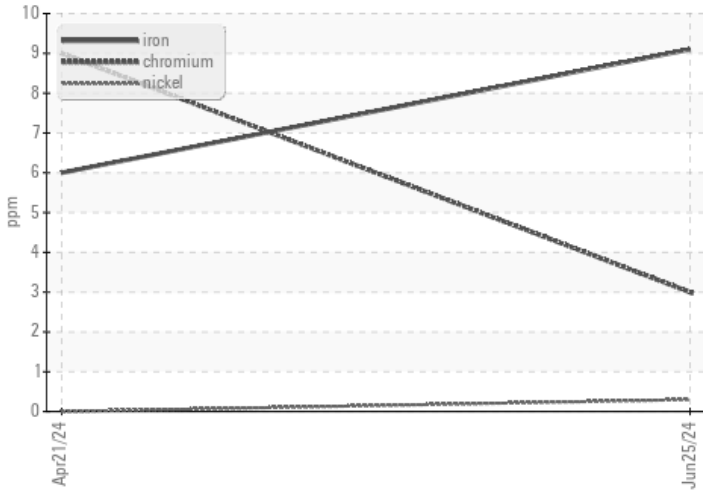
Calcium	ppm	● 1134	● 61	---	---
Magnesium	ppm	● 6	● 1	---	---
Zinc	ppm	● 649	● 411	---	---
Phosphorus	ppm	● 567	● 330	---	---
Barium	ppm	● <1	● 0	---	---
Boron	ppm	● <1	● <1	---	---

Depot: DOMBUR
Unique No: 5801726
Signed: Kevin Marson
Report Date: 27 Jun 2024

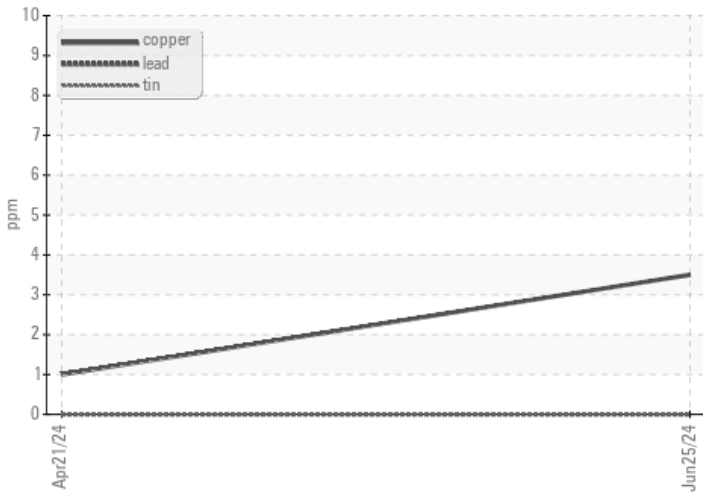


Graphs

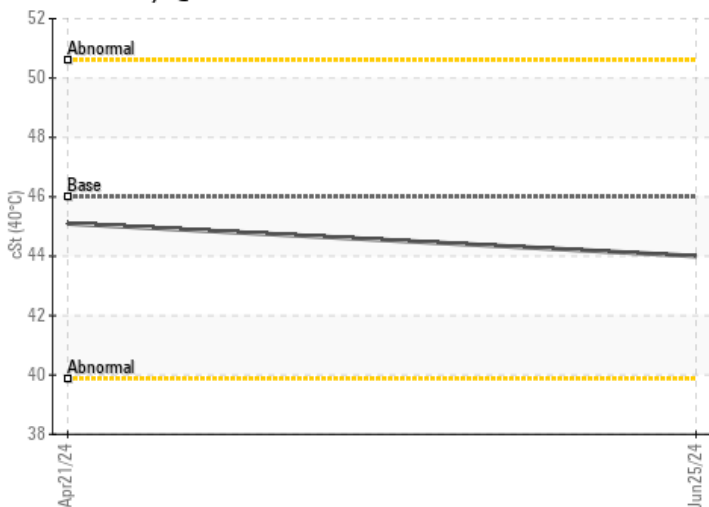
Ferrous Alloys



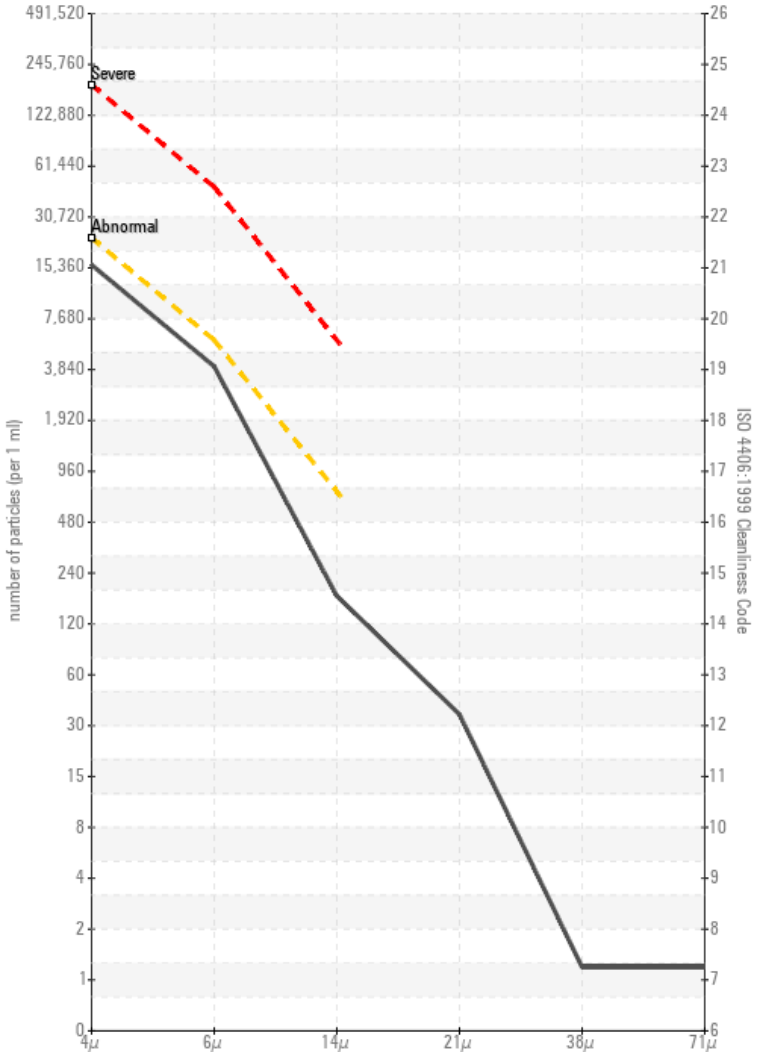
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

