

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 1215-149851 - Hydraulic System

Sample No: LH0273635

Oil Type: AW HYDRAULIC OIL ISO 46



STAINLESS STEEL MIDWEST
 2615 KY-146
 LAGRANGE, KY
 US 40031
 Contact: Service Manager



Sample Information

Sample Number	LH0273635	---	---	---
Sample Date	14 May 2024	---	---	---
Machine Hours	549	---	---	---
Oil Hours	549	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 46.6	---	---	---
Acid Number (AN)	mg KOH/g	● 1.20	---	---	---

T:
F:



Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 19174	---	---	---
Particles >6µm		● 2659	---	---	---
Particles >14µm		● 74	---	---	---
ISO 4406:1999 (c)		21/19/13	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 2	---	---	---

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. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Wear Metals

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



Additives

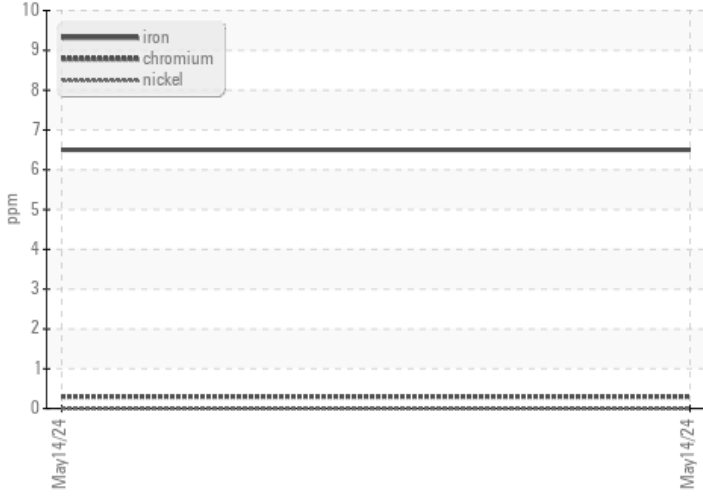
Calcium	ppm	● 1343	---	---	---
Magnesium	ppm	● 4	---	---	---
Zinc	ppm	● 738	---	---	---
Phosphorus	ppm	● 623	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Depot: STALAGKY
Unique No: 11087466
Signed: Don Baldrige
Report Date: 21 Jun 2024

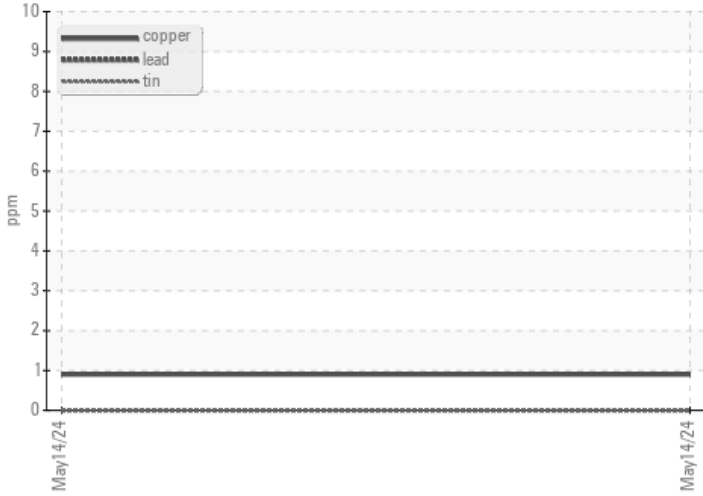


Graphs

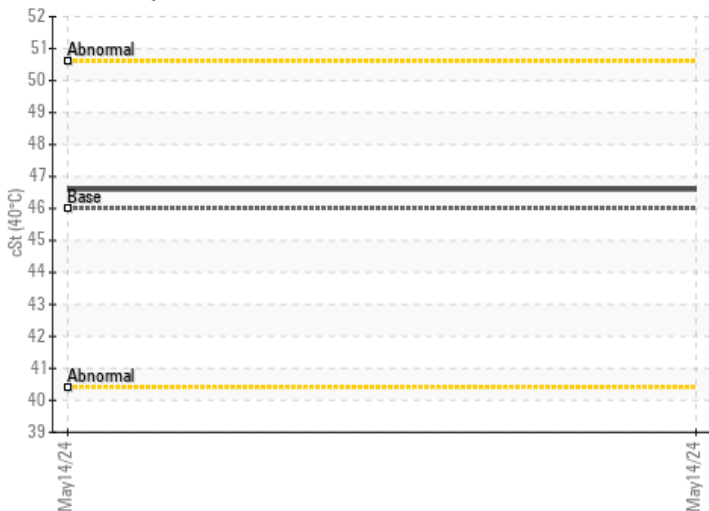
Ferrous Alloys



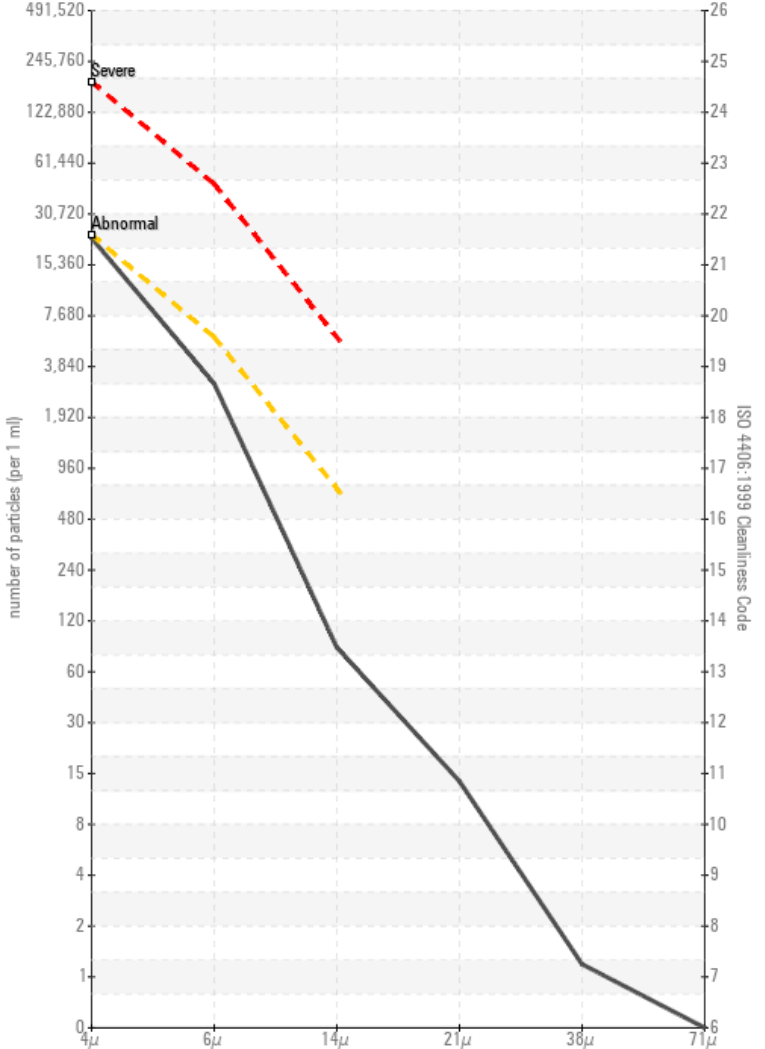
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

