

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1120-4.1 081556 - Hydraulic System

Sample No: LH0259074

Oil Type: LIEBHERR HYDRAULIC 37



SAMPLE INFORMATION

Sample Number	LH0259074	---	---	---
Sample Date	22 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: TERENCE VANDERLENDE
 TERENCE.VANDERLENDE@LIEBHERR.COM
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	36.9	---	---	---
Acid Number (AN)	mg KOH/g	0.39	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		5404	---	---	---
Particles >6µm		1506	---	---	---
Particles >14µm		49	---	---	---
ISO 4406:1999 (c)		20/18/13	---	---	---
Silicon	ppm	1	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	0	---	---	---

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



ADDITIVES

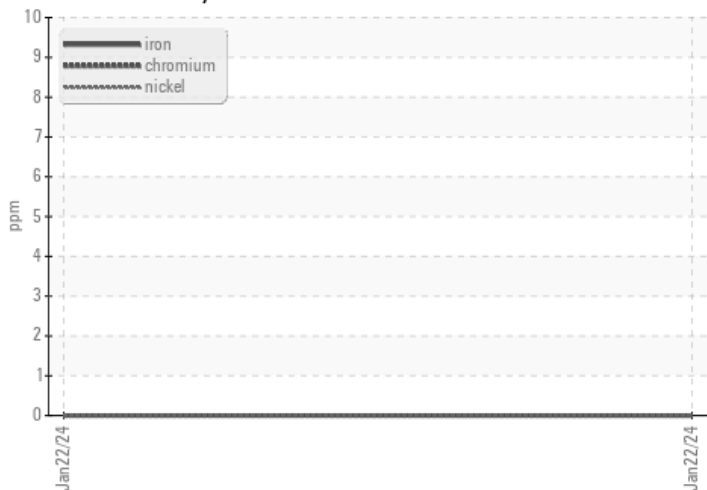
Calcium	ppm	45	---	---	---
Magnesium	ppm	<1	---	---	---
Zinc	ppm	296	---	---	---
Phosphorus	ppm	259	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	9	---	---	---

Depot: LIENEW
 Unique No: 10846673
 Signed: Don Baldrige
 Report Date: 26 Jan 2024

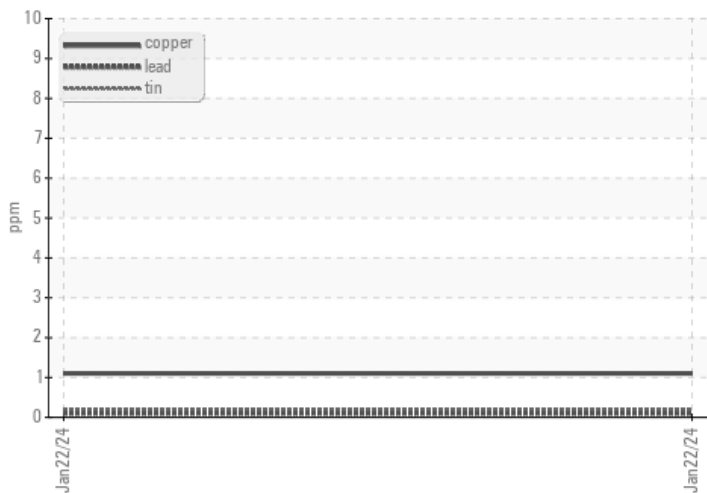


GRAPHS

Ferrous Alloys



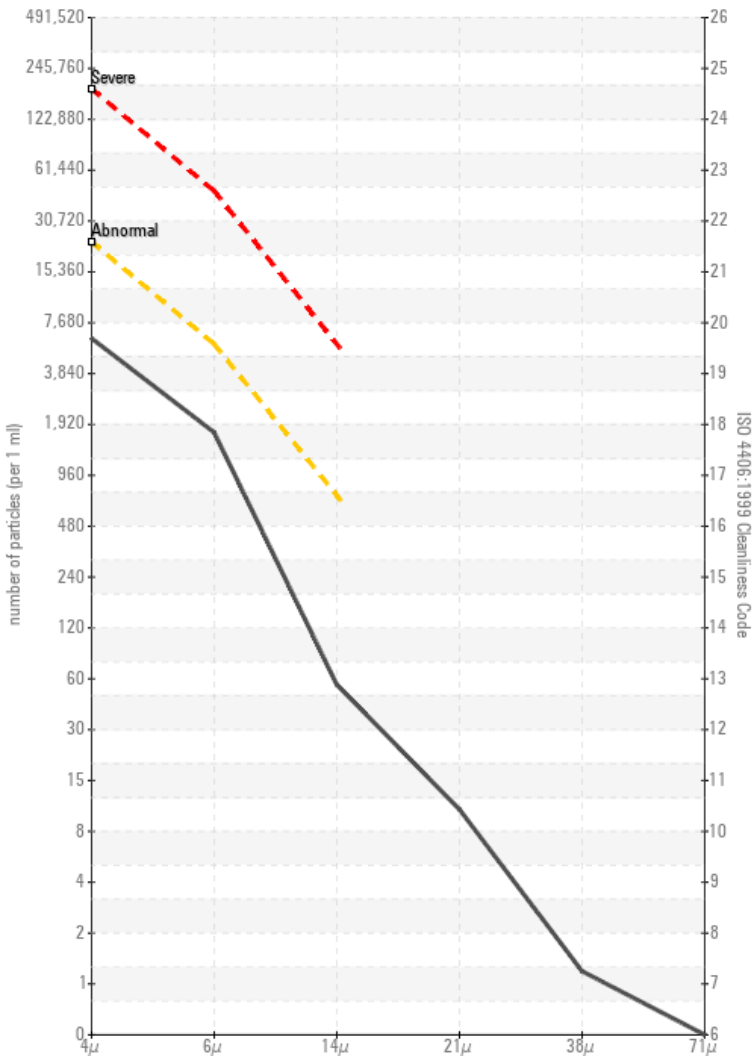
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

