

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LR636 022550-1725 - Hydraulic System

Sample No: LH0273236

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0273236	LHMC100328	LHMC79979	---
Sample Date	02 Jan 2024	21 Dec 2022	14 Sep 2022	---
Machine Hours	1232	501	282	---
Oil Hours	1232	501	282	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	45.0	45.0	46.5	---
Acid Number (AN)	mg KOH/g	0.92	1.22	1.33	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		8921	89608	8843	---
Particles >6µm		2447	15662	453	---
Particles >14µm		228	283	47	---
ISO 4406:1999 (c)		20/18/15	24/21/15	20/16/13	---
Silicon	ppm	2	6	5	---
Sodium	ppm	9	7	3	---
Potassium	ppm	0	<1	0	---

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	7	14	9	---
Copper	ppm	7	7	5	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	0	1	0	---
Chromium	ppm	0	1	<1	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	1	---
Manganese	ppm	0	<1	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

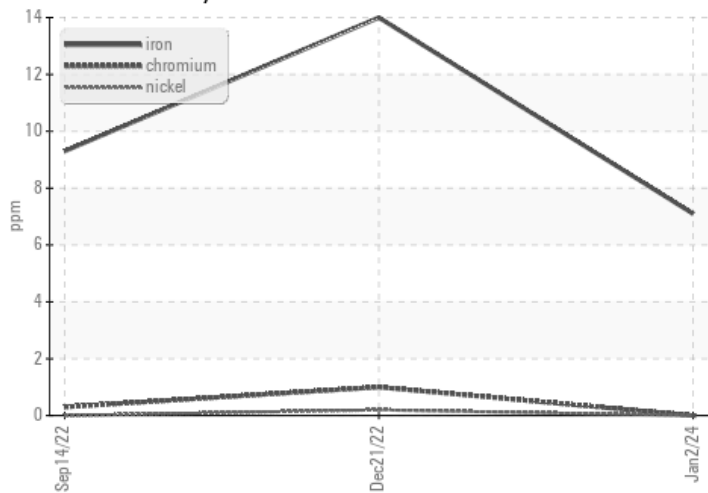
Calcium	ppm	1136	1394	1323	---
Magnesium	ppm	9	4	3	---
Zinc	ppm	551	706	671	---
Phosphorus	ppm	529	595	563	---
Barium	ppm	0	0	0	---
Boron	ppm	0	<1	<1	---

Depot: LEC0070
Unique No: 10820699
Signed: Wes Davis
Report Date: 09 Jan 2024

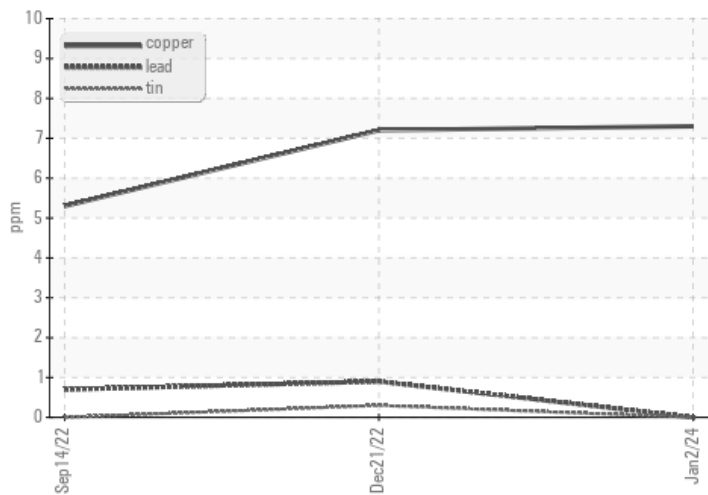


GRAPHS

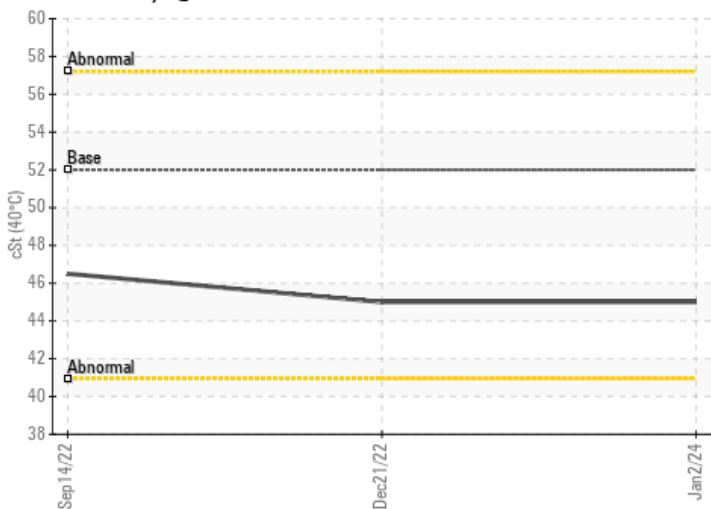
Ferrous Alloys



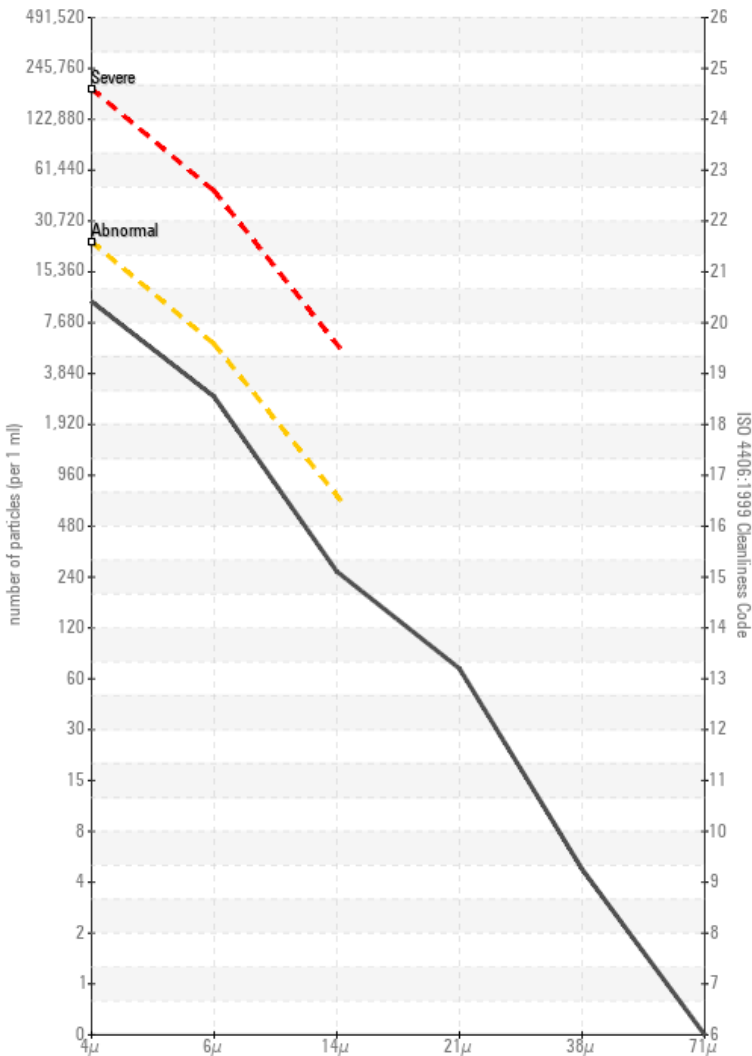
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

