

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Hydraulic System

Sample No: LH0272750

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0272750	LH0272579	LH0264390	LH0254775
Sample Date	02 Jan 2024	27 Oct 2023	04 Aug 2023	02 Jun 2023
Machine Hours	6976	6481	6007	5547
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.5	45.8	46.9	44.8
Acid Number (AN)	mg KOH/g	0.78	0.74	0.86	0.87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		519	1087	749	3224
Particles >6µm		98	252	92	789
Particles >14µm		13	17	15	52
ISO 4406:1999 (c)		16/14/11	17/15/11	17/14/11	19/17/13
Silicon	ppm	0	<1	<1	<1
Sodium	ppm	0	1	2	2
Potassium	ppm	1	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	19	16	19	41
Copper	ppm	2	1	1	3
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	0	0	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

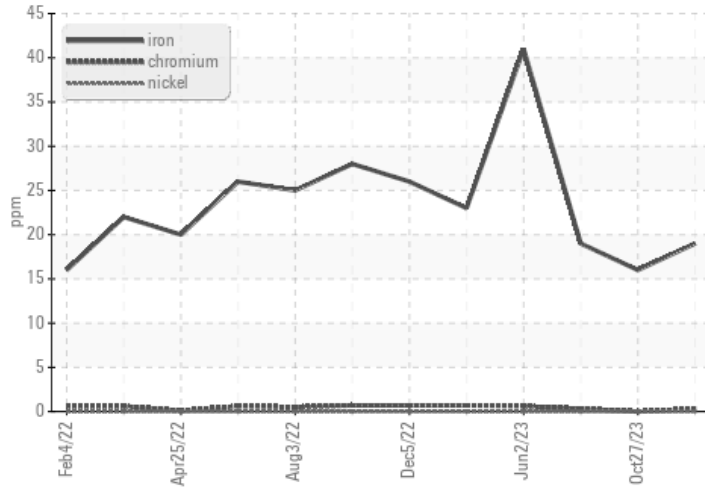
Calcium	ppm	376	538	900	1404
Magnesium	ppm	2	0	3	4
Zinc	ppm	578	436	433	537
Phosphorus	ppm	450	375	395	496
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: LEC0008
 Unique No: 10833284
 Signed: Don Baldrige
 Report Date: 17 Jan 2024

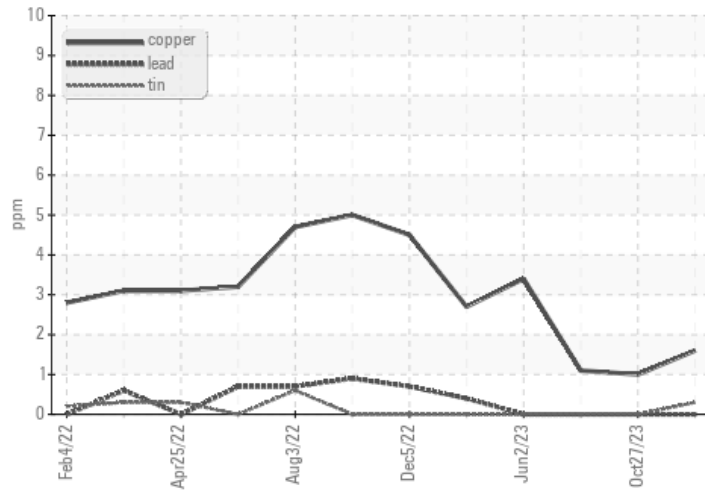


GRAPHS

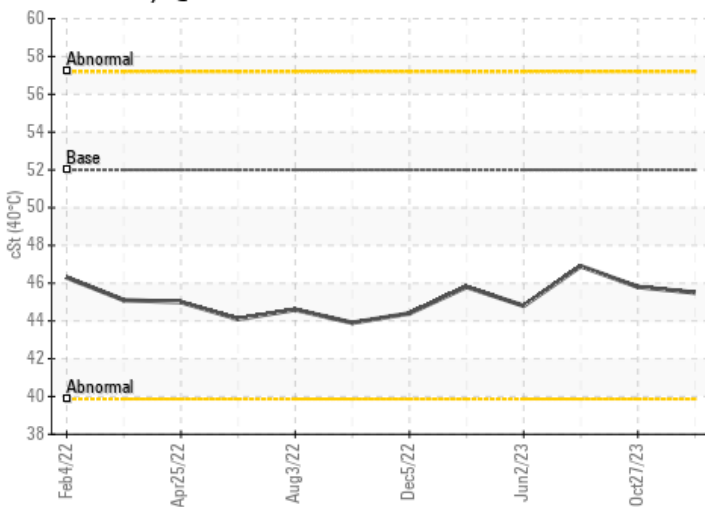
Ferrous Alloys



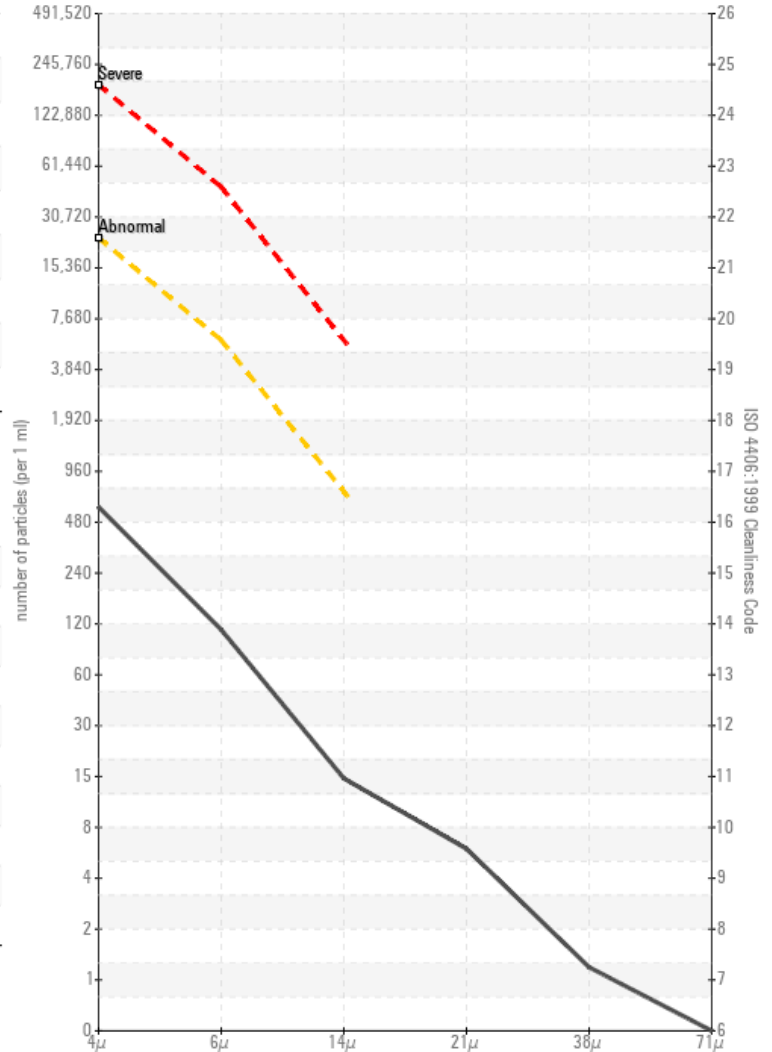
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

