

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110CP 134678-1228 - Hydraulic System

Sample No: LH0244664

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH0244664	LH0243285	LH0244073	LH0243195
Sample Date	10 Jan 2024	10 Jul 2023	16 Mar 2023	28 Dec 2022
Machine Hours	4973	3458	2952	2465
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	N/A	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

RECO EQUIPMENT INC.

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 MONROE, OH
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OIL CONDITION

Visc @ 40°C	cSt	44.7	45.1	43.5	44.5
Acid Number (AN)	mg KOH/g	1.14	1.06	0.88	0.96



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4217	81980	1524	2454
Particles >6µm		616	14988	500	645
Particles >14µm		21	233	43	42
ISO 4406:1999 (c)		19/16/12	24/21/15	18/16/13	18/17/13
Silicon	ppm	2	2	5	5
Sodium	ppm	2	2	2	2
Potassium	ppm	0	<1	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	5	7	6	8
Copper	ppm	1	2	3	4
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	1	1	2	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

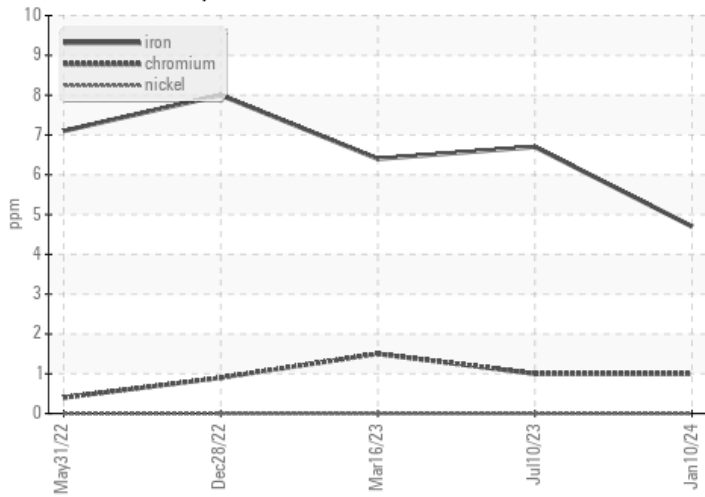
Calcium	ppm	1282	1416	1254	1431
Magnesium	ppm	0	6	3	5
Zinc	ppm	653	658	590	655
Phosphorus	ppm	587	617	543	596
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: LEC0075
 Unique No: 10832365
 Signed: Jonathan Hester
 Report Date: 17 Jan 2024

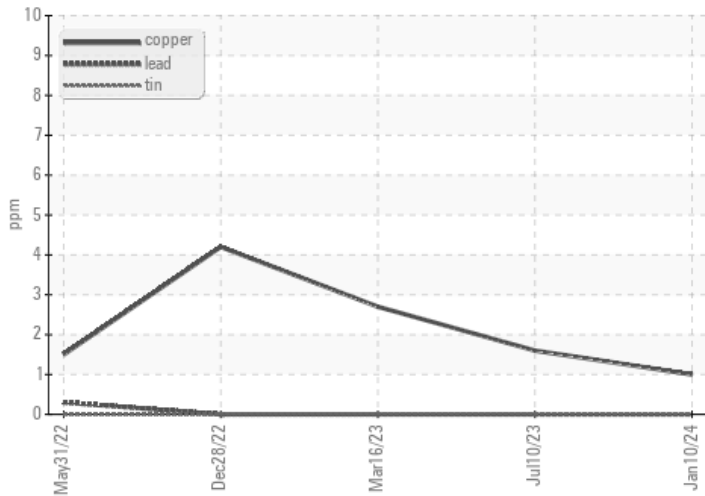


GRAPHS

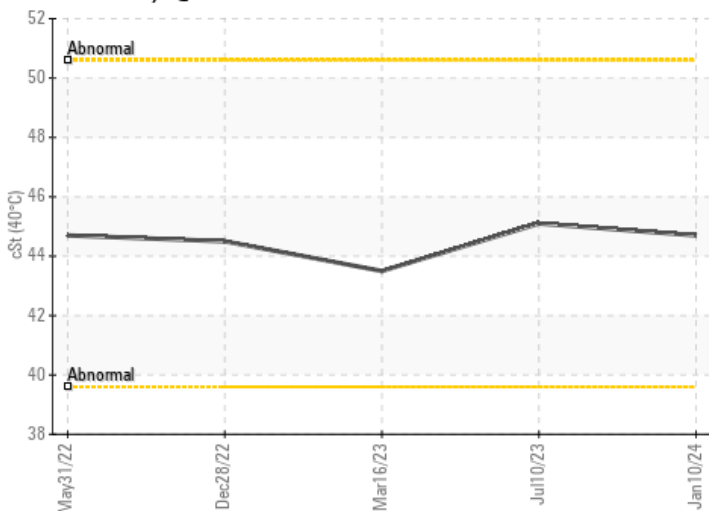
Ferrous Alloys



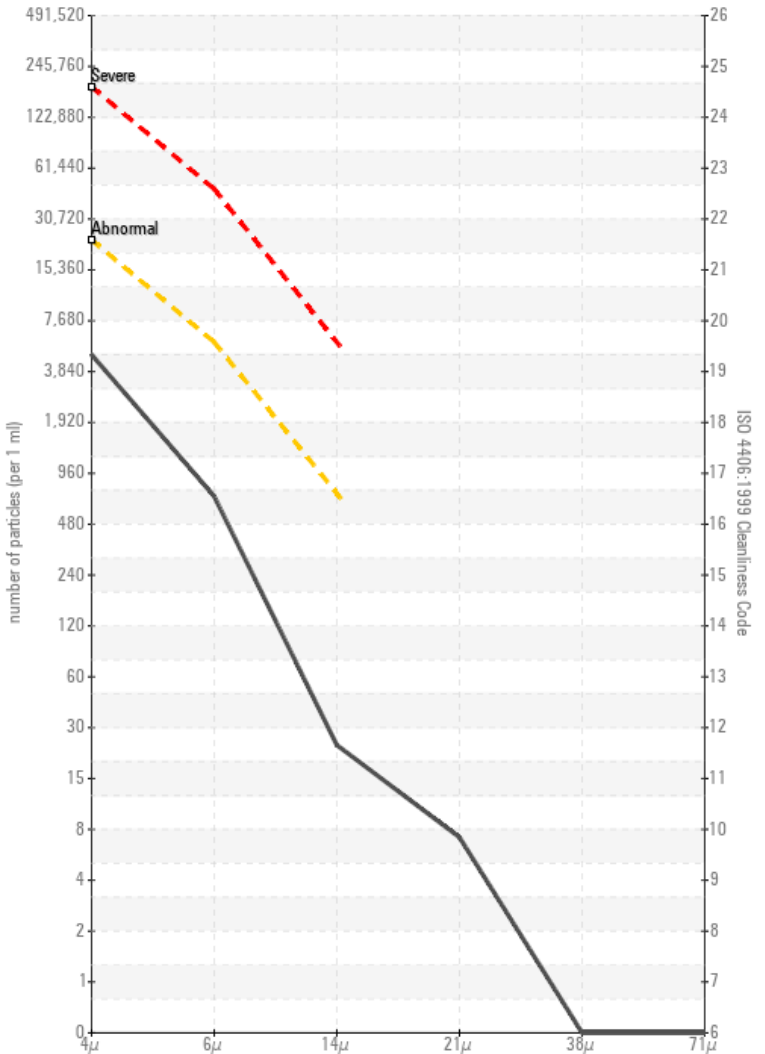
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

