

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-115016 - Hydraulic System

Sample No: LH0272126

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH0272126	LH0156674	LH0156617	LH0156716
Sample Date	19 Dec 2023	30 Aug 2023	25 Apr 2023	25 Jan 2023
Machine Hours	17781	16752	15594	14552
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

PCA

400 2ND STREET
INTERNATIONAL FALLS, MN
US 56649
Contact: SCOTT LINDVALL
scottlindvall@boisepaper.com
T: (218)285-5706
F:



OIL CONDITION

Visc @ 40°C	cSt	31.3	31.3	31.2	31.2
Acid Number (AN)	mg KOH/g	0.31	0.37	0.32	0.36



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		26824	6791	1942	4041
Particles >6µm		2096	1292	343	1082
Particles >14µm		41	81	24	73
ISO 4406:1999 (c)		22/18/13	20/17/14	18/16/12	19/17/13
Silicon	ppm	0	<1	<1	<1
Sodium	ppm	0	0	0	0
Potassium	ppm	<1	<1	<1	<1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present 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	3	2	5	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	0	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

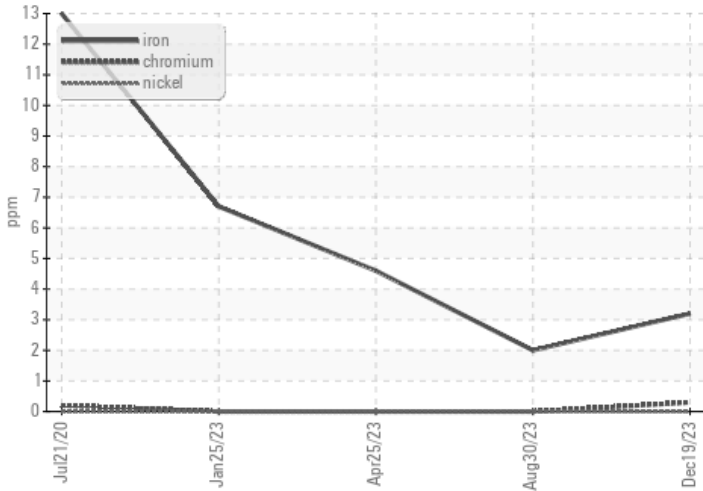
Calcium	ppm	68	71	59	60
Magnesium	ppm	2	3	3	4
Zinc	ppm	435	429	446	431
Phosphorus	ppm	345	328	325	327
Barium	ppm	0	2	0	<1
Boron	ppm	0	0	0	0

Depot: PCAINT
Unique No: 10833282
Signed: Don Baldrige
Report Date: 17 Jan 2024

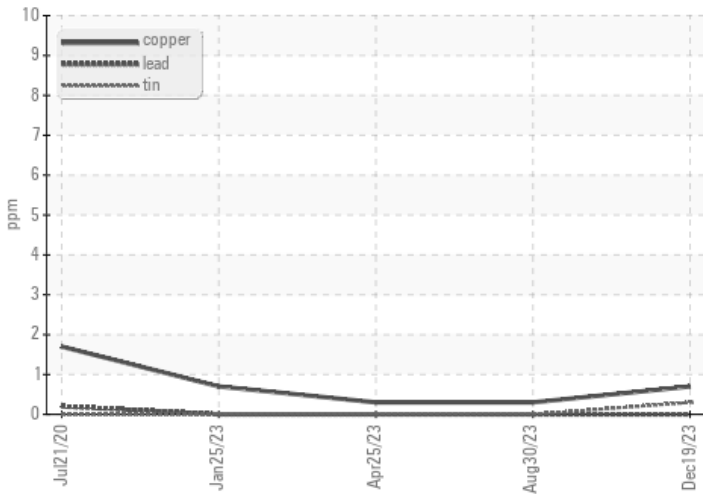


GRAPHS

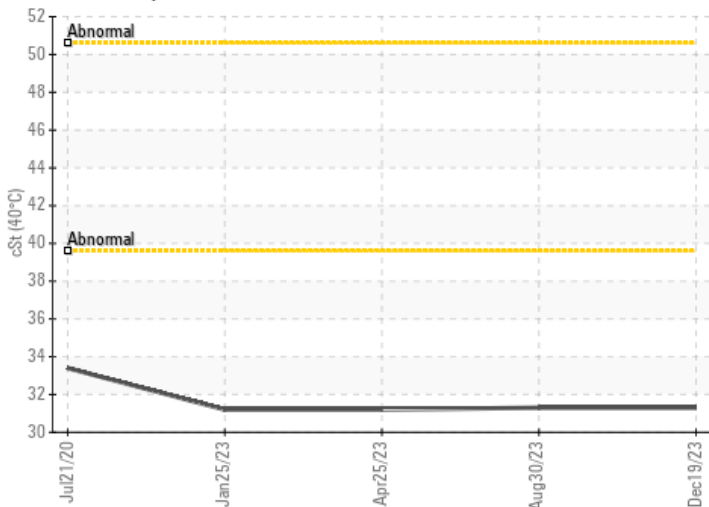
Ferrous Alloys



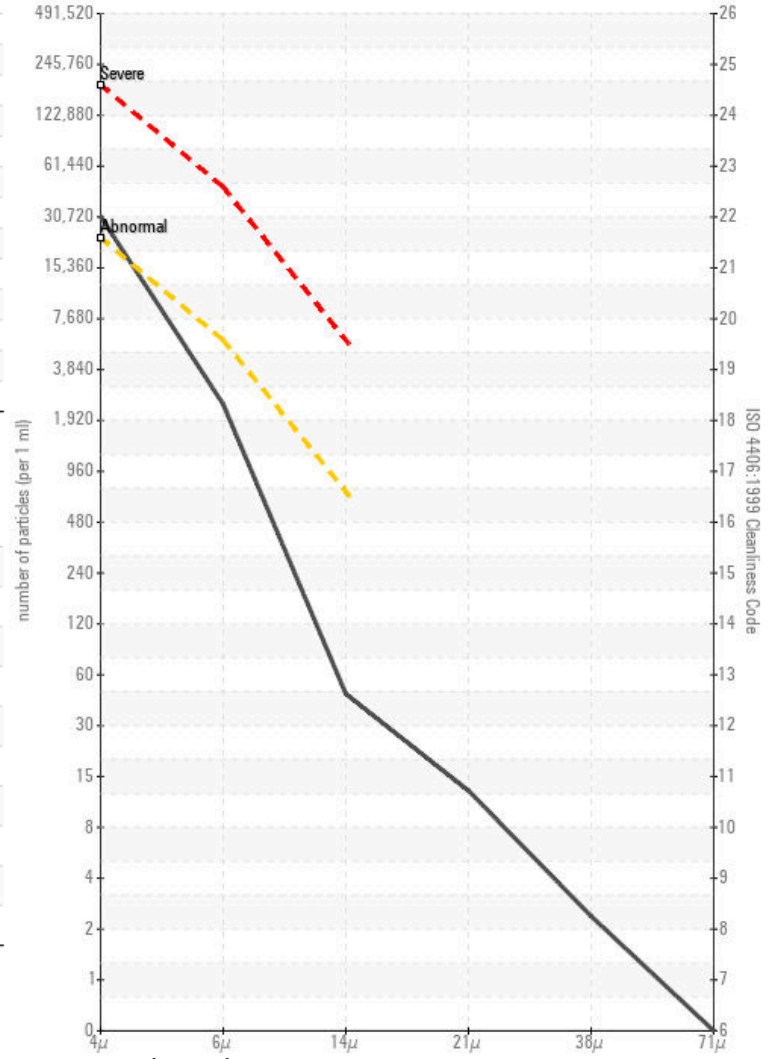
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

