

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944 038569-194 - Hydraulic System

Sample No: LH0204208

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0204208	LH0200242	LH0199885	LHMC155887
Sample Date	26 Oct 2023	01 Apr 2022	15 Sep 2021	04 May 2021
Machine Hours	14477	13780	13489	13326
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

ALTER SCRAP

2400 NORTH 14TH AVENUE
WAUSAU, WI
US 54401
Contact: DALE BAUER



OIL CONDITION

Visc @ 40°C	cSt	32.2	32.5	32.9	33.3
Acid Number (AN)	mg KOH/g	0.47	0.47	0.424	0.366

T: (715)675-6900
F: (715)675-9748



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		19520	41369	3942	13188
Particles >6µm		2498	4490	835	1441
Particles >14µm		62	97	66	67
ISO 4406:1999 (c)		21/18/13	23/19/14	19/17/13	21/18/13
Silicon	ppm	5	3	<1	2
Sodium	ppm	0	0	<1	<1
Potassium	ppm	<1	<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	<1	4	3	4
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	<1	0	<1
Chromium	ppm	<1	<1	<1	<1
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

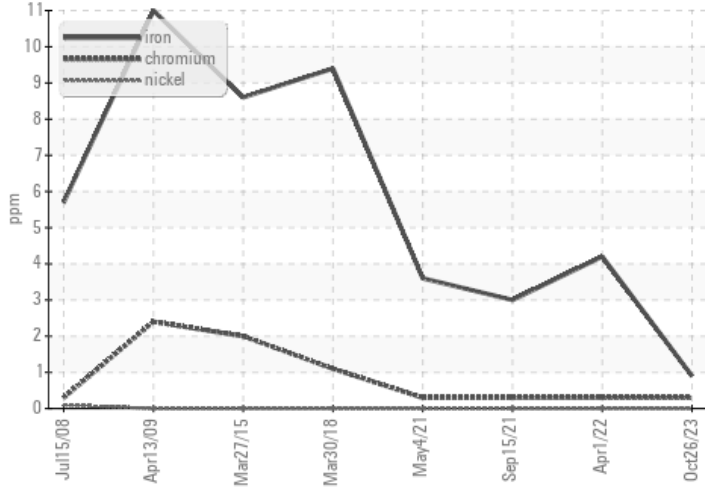
Calcium	ppm	195	224	184	178
Magnesium	ppm	3	6	1	8
Zinc	ppm	509	463	480	453
Phosphorus	ppm	390	353	386	363
Barium	ppm	0	0	0	0
Boron	ppm	2	4	3	4

Depot: ALTWAU
Unique No: 10833286
Signed: Don Baldrige
Report Date: 17 Jan 2024

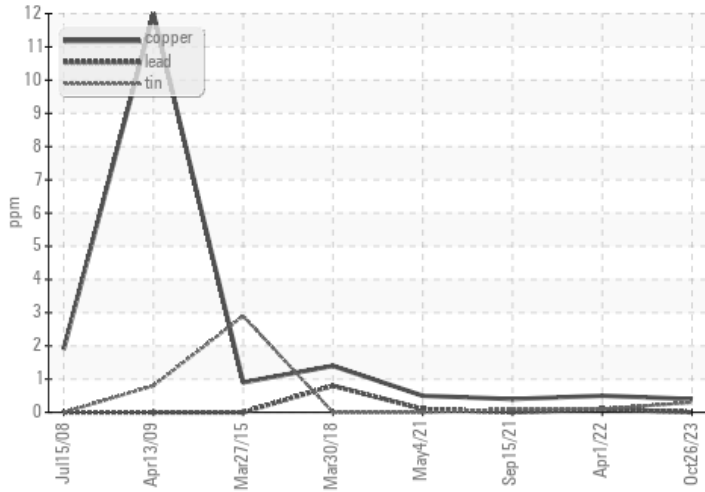


GRAPHS

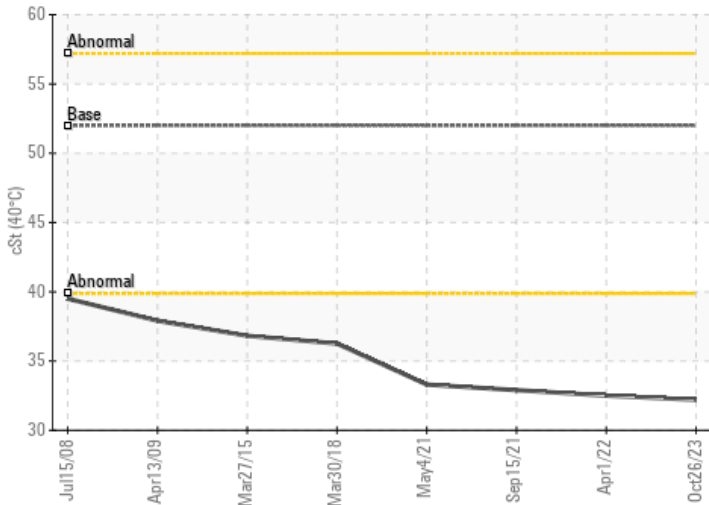
Ferrous Alloys



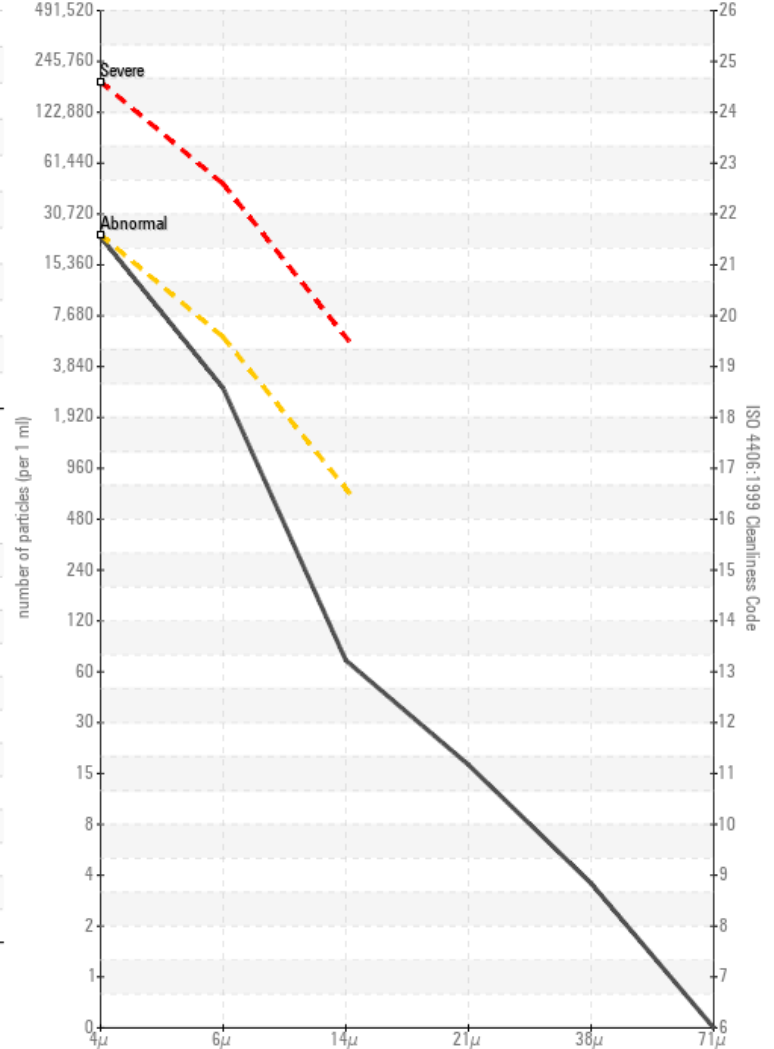
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

