

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C 1528-132602 - Hydraulic System

Sample No: LH0210069

Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46



SAMPLE INFORMATION

Sample Number	LH0210069	LH0210060	LH0210051	LH0210042
Sample Date	22 Sep 2023	04 Apr 2023	06 Jan 2023	24 May 2022
Machine Hours	5266	4009	3384	1995
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ATTENTION

STAIMAN RECYCLING

201 HEPBURN ST
WILLIAMSPORT, PA
US 17701
Contact: JOE MARKLEY
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T: (570)419-5479
F:



OIL CONDITION

Visc @ 40°C	cSt	43.0	42.9	43.5	45.6
Acid Number (AN)	mg KOH/g	0.69	0.75	0.78	0.86



CONTAMINATION

Particles >4µm		2008	4800	5658	21179
Particles >6µm		423	1149	1438	5936
Particles >14µm		25	44	64	444
ISO 4406:1999 (c)		18/16/12	19/17/13	20/18/13	22/20/16
Silicon	ppm	2	2	2	1
Sodium	ppm	<1	1	2	<1
Potassium	ppm	<1	<1	0	0



WEAR METALS

Iron	ppm	103	63	59	16
Copper	ppm	4	2	2	1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	0	0	<1
Chromium	ppm	2	1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	2	1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	929	941	1139	1187
Magnesium	ppm	6	5	5	5
Zinc	ppm	484	469	451	485
Phosphorus	ppm	399	392	403	437
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Diagnosis

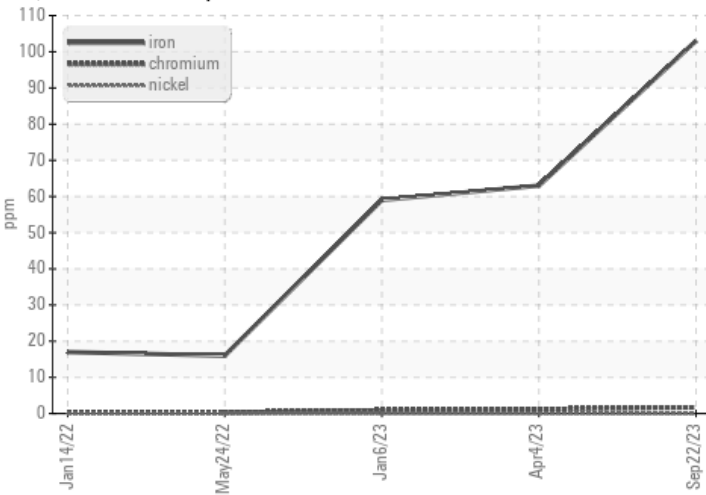
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid.

Depot: STAWILLH
Unique No: 10673551
Signed: Jonathan Hester
Report Date: 04 Oct 2023

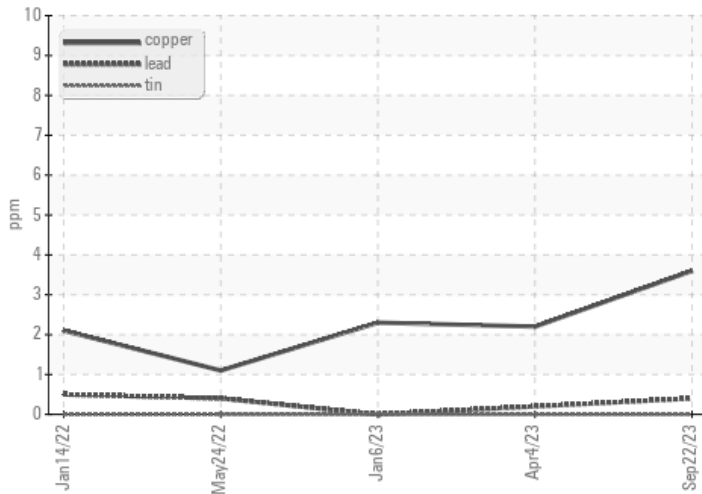


GRAPHS

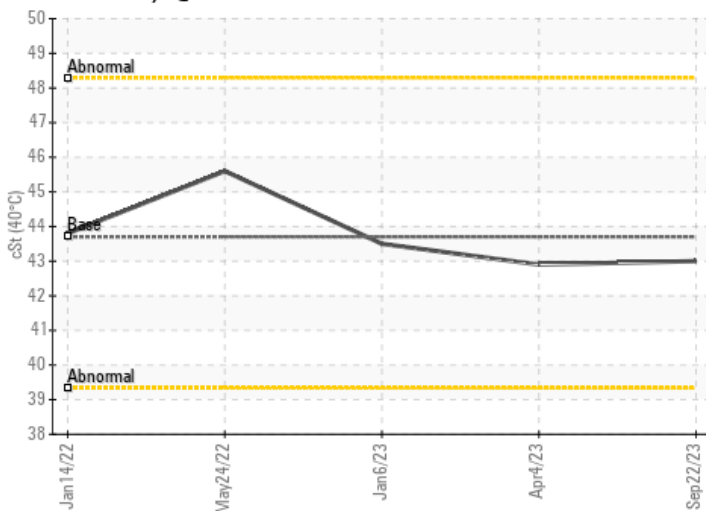
● Ferrous Alloys



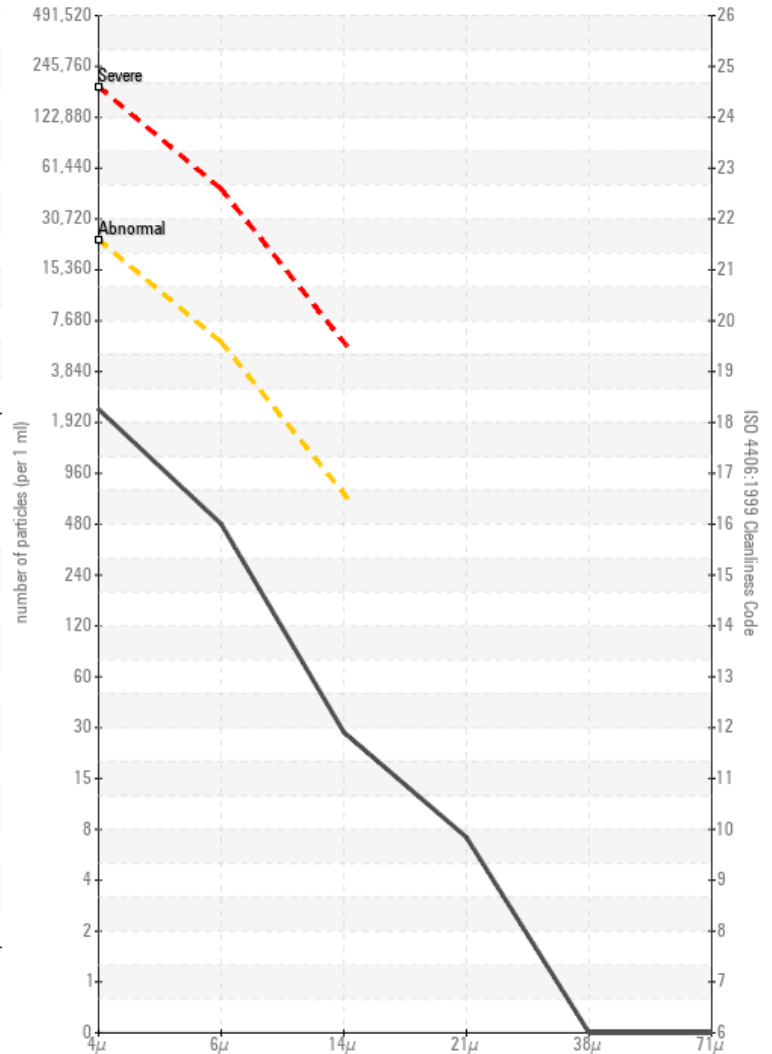
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

