

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Hydraulic System

Sample No: LH0268389

Oil Type: LIEBHERR HYDRAULIC HVI



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Sample Information

Sample Number	LH0268389	LH0258837	LH0272770	LH0243357
Sample Date	27 Jun 2024	20 Feb 2024	21 Dec 2023	02 Oct 2023
Machine Hours	26934	26421	25949	25481
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	43.5	44.6	43.8	46.4
Acid Number (AN)	mg KOH/g	0.38	1.17	0.81	0.88



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4993	27461	1728	1111
Particles >6µm		106	120	353	282
Particles >14µm		15	18	30	23
ISO 4406:1999 (c)		19/14/11	22/14/11	18/16/12	17/15/12
Silicon	ppm	8	8	7	6
Sodium	ppm	4	3	0	4
Potassium	ppm	<1	<1	3	<1



Wear Metals

Iron	ppm	7	7	8	6
Copper	ppm	2	2	3	2
Lead	ppm	0	2	<1	0
Tin	ppm	0	2	<1	<1
Aluminum	ppm	<1	<1	2	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	<1	0	0



Additives

Calcium	ppm	2232	2270	1947	1690
Magnesium	ppm	23	14	11	13
Zinc	ppm	975	1072	947	886
Phosphorus	ppm	833	879	811	708
Barium	ppm	0	0	7	0
Boron	ppm	62	54	51	44

Diagnosis

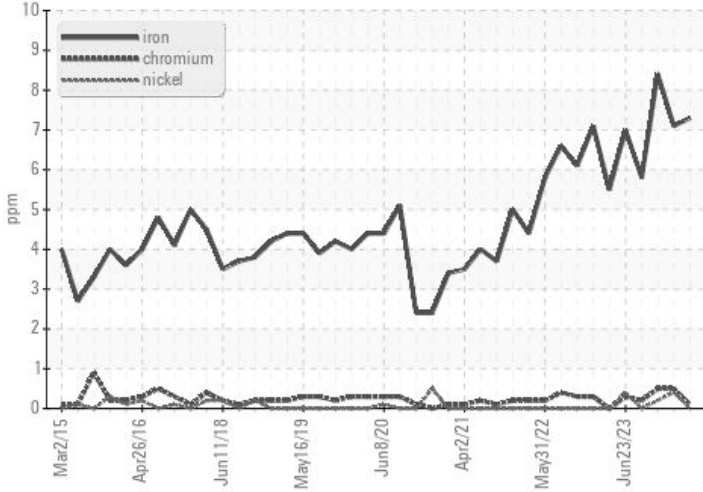
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

Depot: LEC0008
 Unique No: 11125604
 Signed: Don Baldrige
 Report Date: 17 Jul 2024

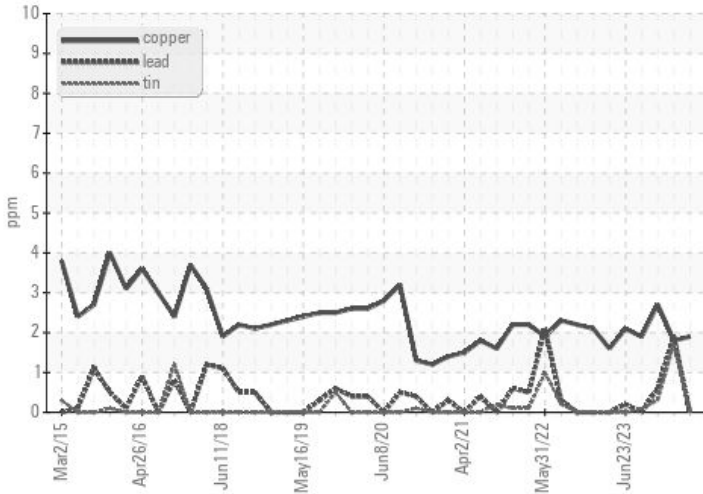


Graphs

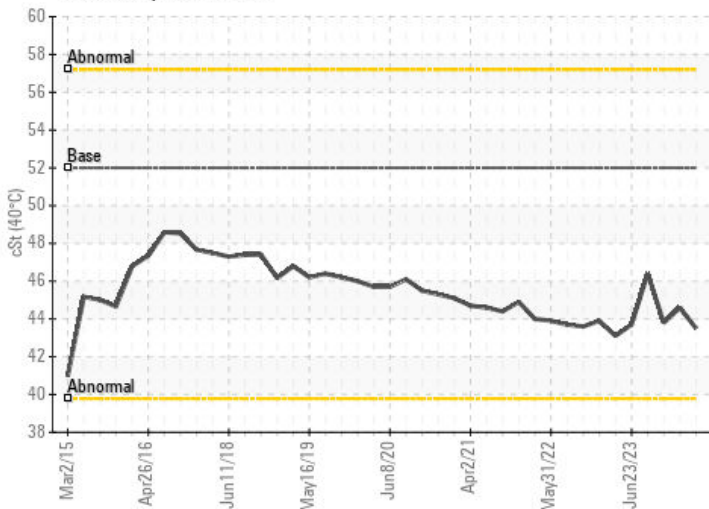
Ferrous Alloys



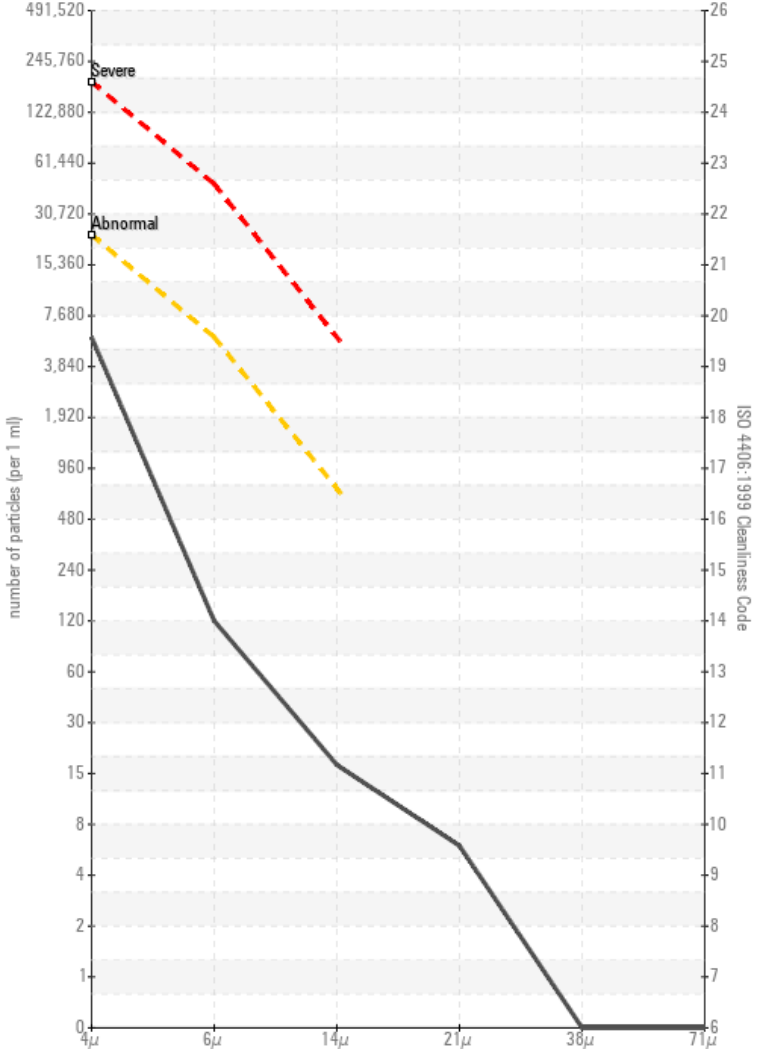
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

