

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-77107 - Hydraulic System

Sample No: LH0258794

Oil Type: LIEBHERR HYDRAULIC HVI



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SAMPLE INFORMATION

Sample Number	LH0258794	LH0229289	LH0254818	LH0254032
Sample Date	01 Mar 2024	30 Aug 2023	16 Jun 2023	28 Mar 2023
Machine Hours	20946	19522	18994	18616
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	43.1	43.0	43.6	44.0
Acid Number (AN)	mg KOH/g	0.60	0.67	0.51	0.42



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		564	691	946	1073
Particles >6µm		106	109	73	371
Particles >14µm		8	12	3	33
ISO 4406:1999 (c)		16/14/10	17/14/11	17/13/9	17/16/12
Silicon	ppm	4	4	4	4
Sodium	ppm	3	0	<1	<1
Potassium	ppm	0	<1	<1	0



WEAR METALS

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



ADDITIVES

Calcium	ppm	1446	1276	1161	1087
Magnesium	ppm	5	6	3	14
Zinc	ppm	765	779	743	769
Phosphorus	ppm	663	627	586	566
Barium	ppm	0	2	0	0
Boron	ppm	38	38	36	31

Diagnosis

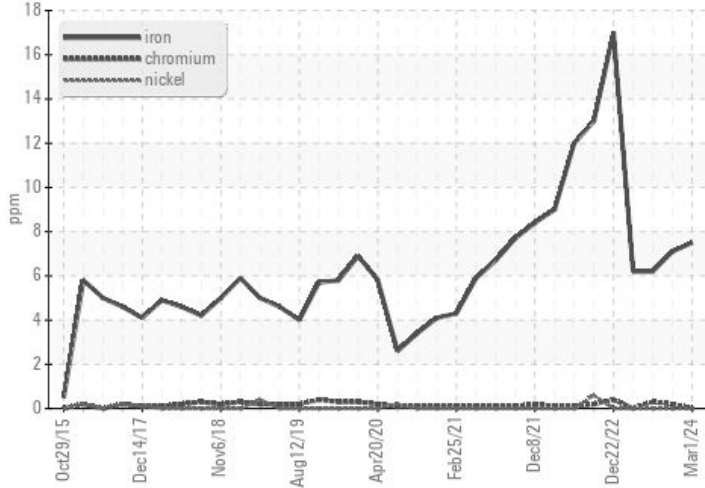
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: LEC0008
 Unique No: 10938427
 Signed: Wes Davis
 Report Date: 21 Mar 2024

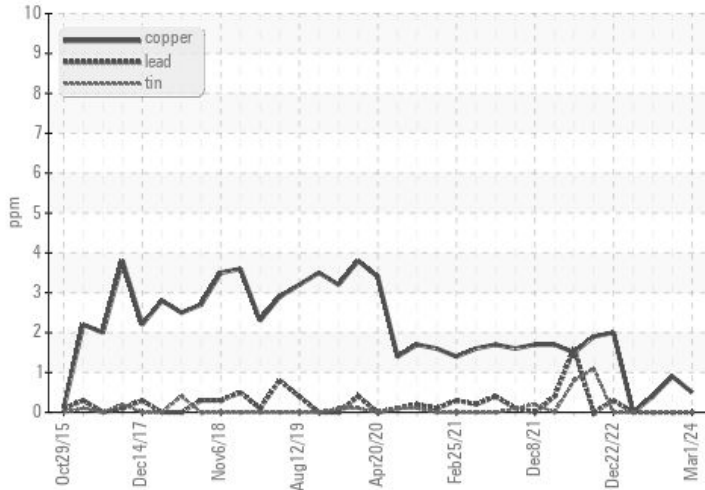


GRAPHS

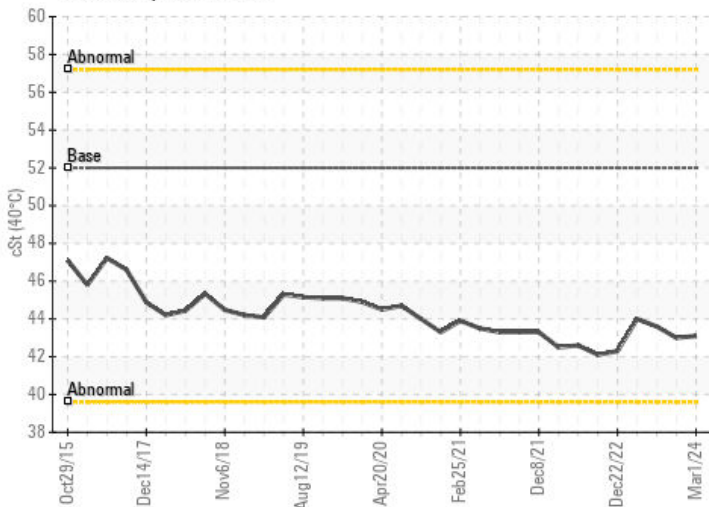
Ferrous Alloys



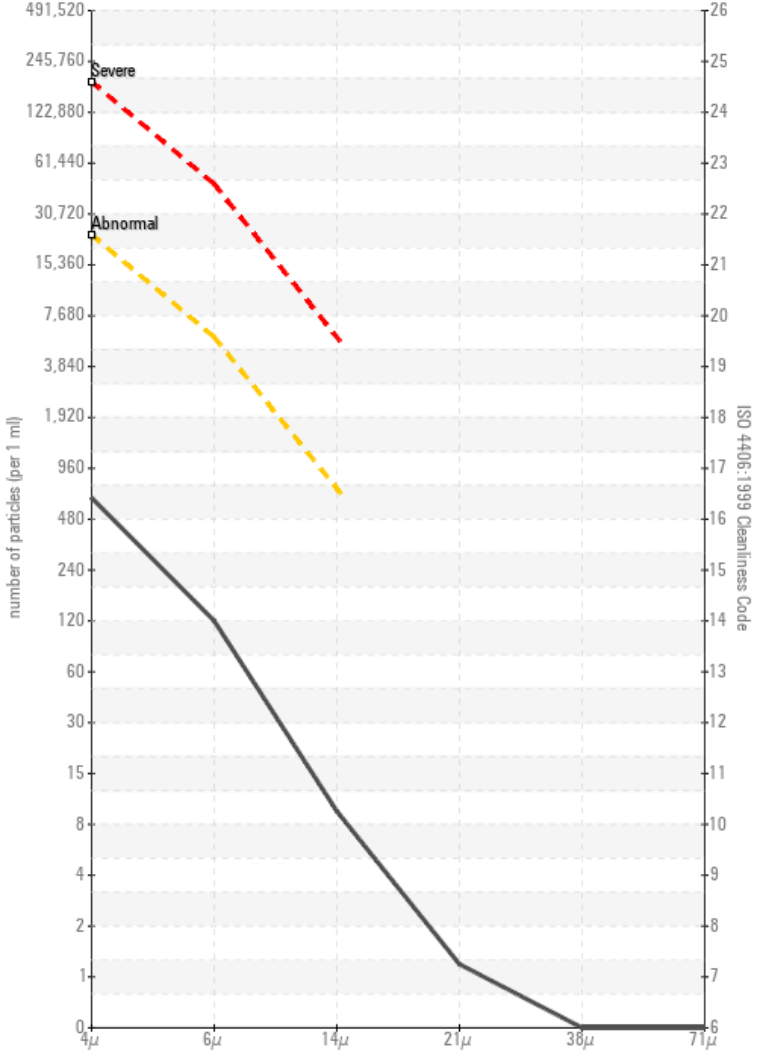
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

