

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-81839 - Hydraulic System

Sample No: LH0243707

Oil Type: NOT GIVEN



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SAMPLE INFORMATION

Sample Number	LH0243707	LH0185298	LH0166802	LHMC148476
Sample Date	27 Sep 2023	04 Aug 2021	28 Sep 2020	15 May 2019
Machine Hours	0	7953	6978	4996
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	N/A	Not Changd
Sample Status	NORMAL	ABNORMAL	ATTENTION	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	43.0	42.0	41.3	41.4
Acid Number (AN)	mg KOH/g	1.05	0.928	0.949	0.956



CONTAMINATION

Particles >4µm		1056	---	20505	1329
Particles >6µm		138	---	6435	327
Particles >14µm		11	---	576	28
ISO 4406:1999 (c)		17/14/11	---	22/20/16	18/16/12
Silicon	ppm	2	2	1	1
Sodium	ppm	2	4	5	3
Potassium	ppm	2	2	1	<1



WEAR METALS

Iron	ppm	43	26	19	10
Copper	ppm	7	7	6	5
Lead	ppm	1	2	1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	0	<1	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	849	924	1098	1182
Magnesium	ppm	6	5	5	3
Zinc	ppm	657	643	661	659
Phosphorus	ppm	490	485	516	526
Barium	ppm	0	0	0	0
Boron	ppm	0	2	2	<1

Diagnosis

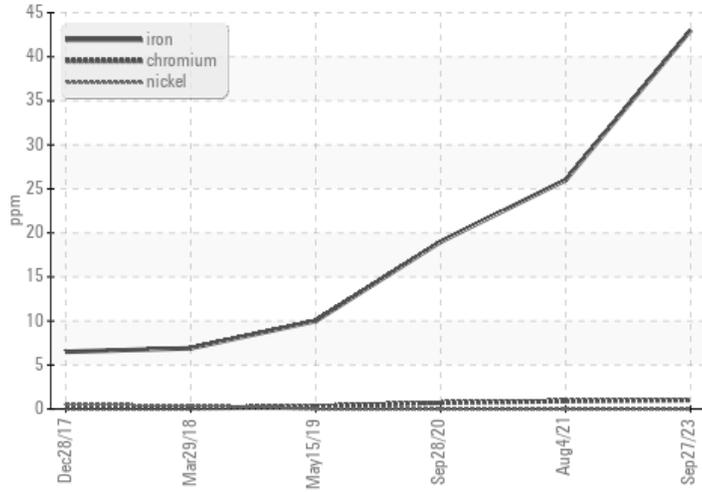
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

Depot: LEC007
 Unique No: 10673550
 Signed: Jonathan Hester
 Report Date: 04 Oct 2023

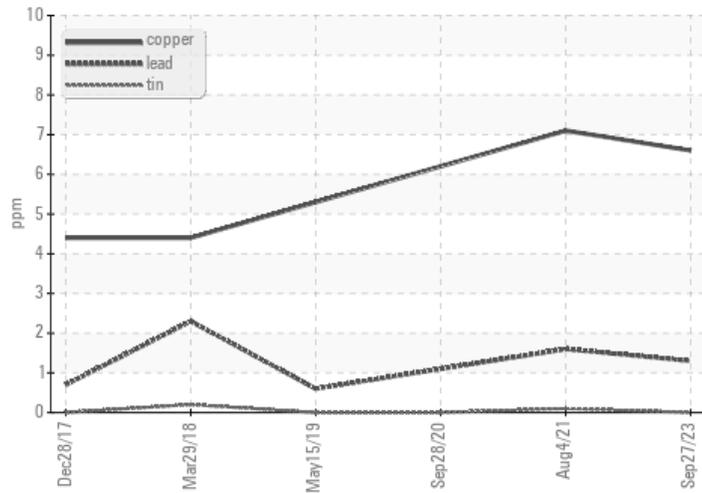


GRAPHS

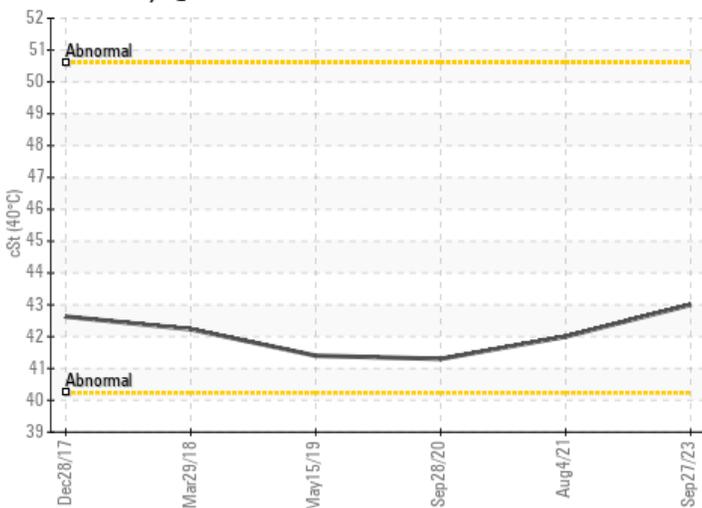
Ferrous Alloys



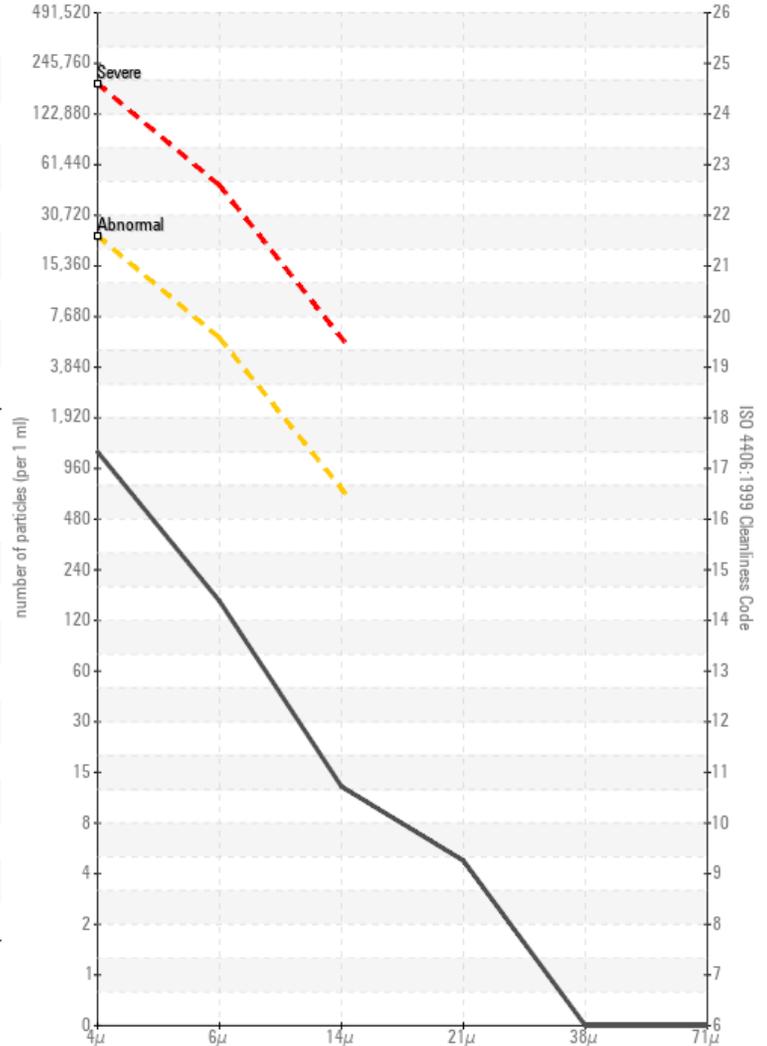
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

