

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107 256-1216 - Hydraulic System

Sample No: LH06176058

Oil Type: {unknown}



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Sample Information

Sample Number	LH06176058	LH05509505	LH05170370	LHMC141299
Sample Date	09 May 2024	03 Apr 2022	28 Jan 2021	06 Jan 2020
Machine Hours	3993	2974	1987	1017
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL



Oil Condition

Visc @ 40°C	cSt	41.6	42.5	43.0	44.3
Acid Number (AN)	mg KOH/g	1.28	1.17	1.063	1.042



Contamination

Water	%	NEG	0.379	0.216	NEG
Particles >4µm		1080	---	2621	105661
Particles >6µm		97	---	1428	15817
Particles >14µm		9	---	243	36
ISO 4406:1999 (c)		17/14/10	---	19/18/15	24/21/12
Silicon	ppm	2	1	1	2
Sodium	ppm	3	0	1	2
Potassium	ppm	2	0	1	2



Wear Metals

Iron	ppm	12	12	12	8
Copper	ppm	4	9	6	3
Lead	ppm	1	<1	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	1	2	2	1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



Additives

Calcium	ppm	918	1186	1173	1297
Magnesium	ppm	8	6	10	7
Zinc	ppm	781	693	761	730
Phosphorus	ppm	660	647	642	569
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	1	<1

Diagnosis

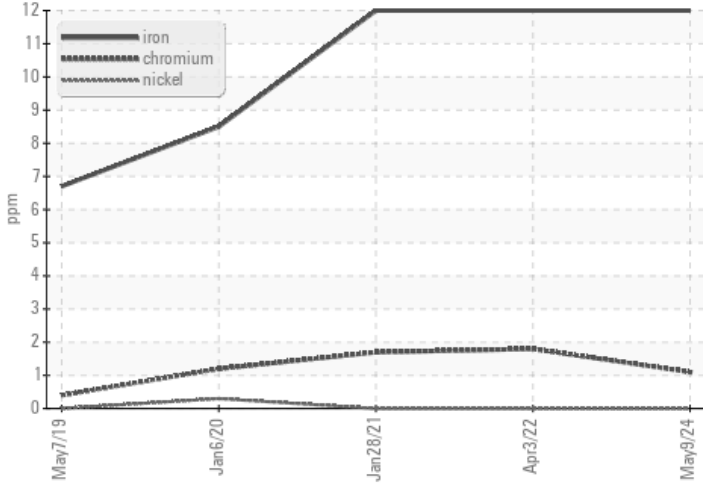
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level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

Depot: DIEDEF
Unique No: 11022111
Signed: Wes Davis
Report Date: 14 May 2024

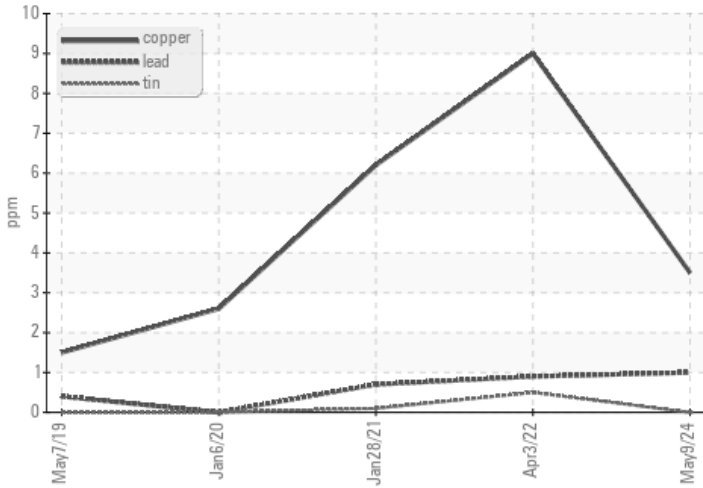


Graphs

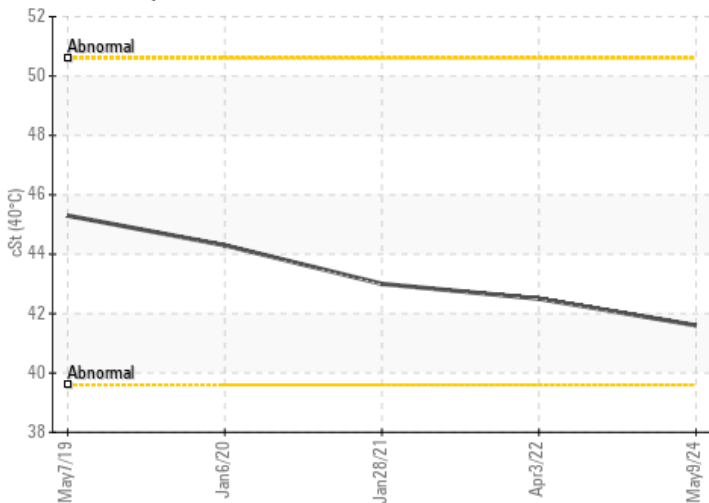
Ferrous Alloys



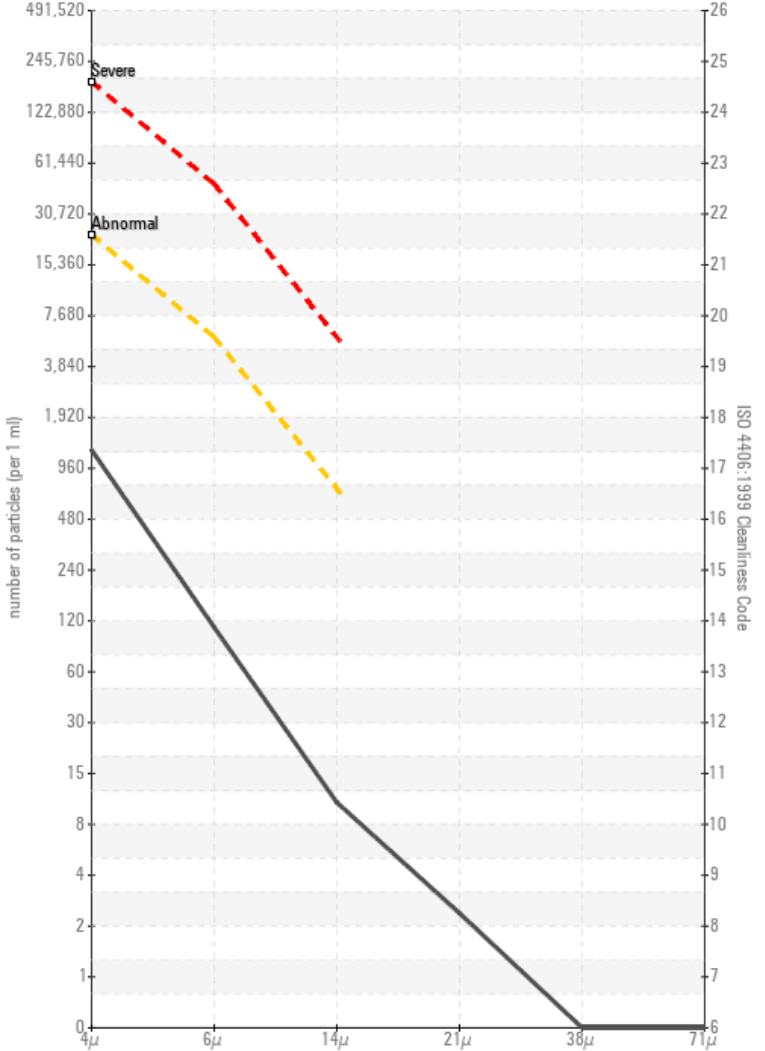
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

