

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80C 097852-1529 - Hydraulic System

Sample No: LH0258433

Oil Type: AW HYDRAULIC OIL ISO 68



Sample Information

Sample Number	LH0258433	LH0190793	LH0171931	LHMC155527
Sample Date	17 Apr 2024	13 Aug 2021	23 Oct 2020	14 Sep 2020
Machine Hours	8867	5190	3572	2319
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	N/A
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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 dmiano@heavymachinesinc.com
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Oil Condition

Visc @ 40°C	cSt	60.2	62.4	52.8	50.8
Acid Number (AN)	mg KOH/g	0.46	0.379	0.869	0.953



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9143	5908	12720	35496
Particles >6µm		2220	1103	1939	7107
Particles >14µm		135	71	103	471
ISO 4406:1999 (c)		20/18/14	20/17/13	21/18/14	22/20/16
Silicon	ppm	3	<1	6	7
Sodium	ppm	<1	0	1	2
Potassium	ppm	<1	<1	0	<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.



Wear Metals

Iron	ppm	11	2	12	12
Copper	ppm	2	2	9	7
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	0	<1	<1
Chromium	ppm	2	<1	2	2
Molybdenum	ppm	1	2	0	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

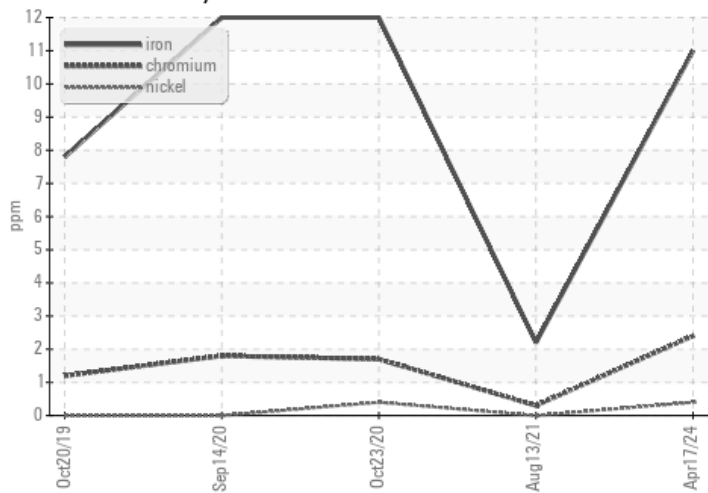
Calcium	ppm	65	73	632	918
Magnesium	ppm	26	56	4	0
Zinc	ppm	413	385	503	619
Phosphorus	ppm	352	299	482	489
Barium	ppm	0	0	0	0
Boron	ppm	0	2	<1	5

Depot: HEATHE
 Unique No: 10993860
 Signed: Wes Davis
 Report Date: 24 Apr 2024

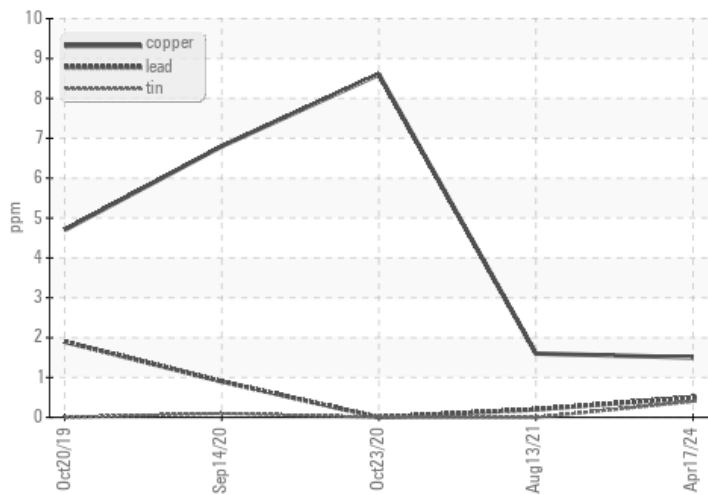


Graphs

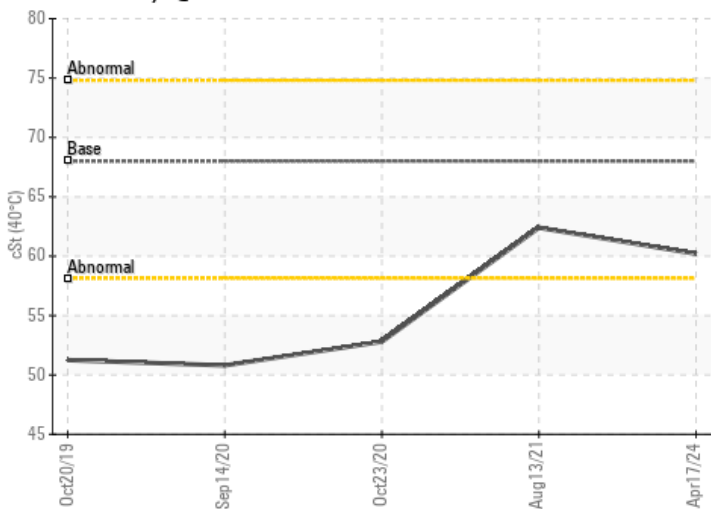
Ferrous Alloys



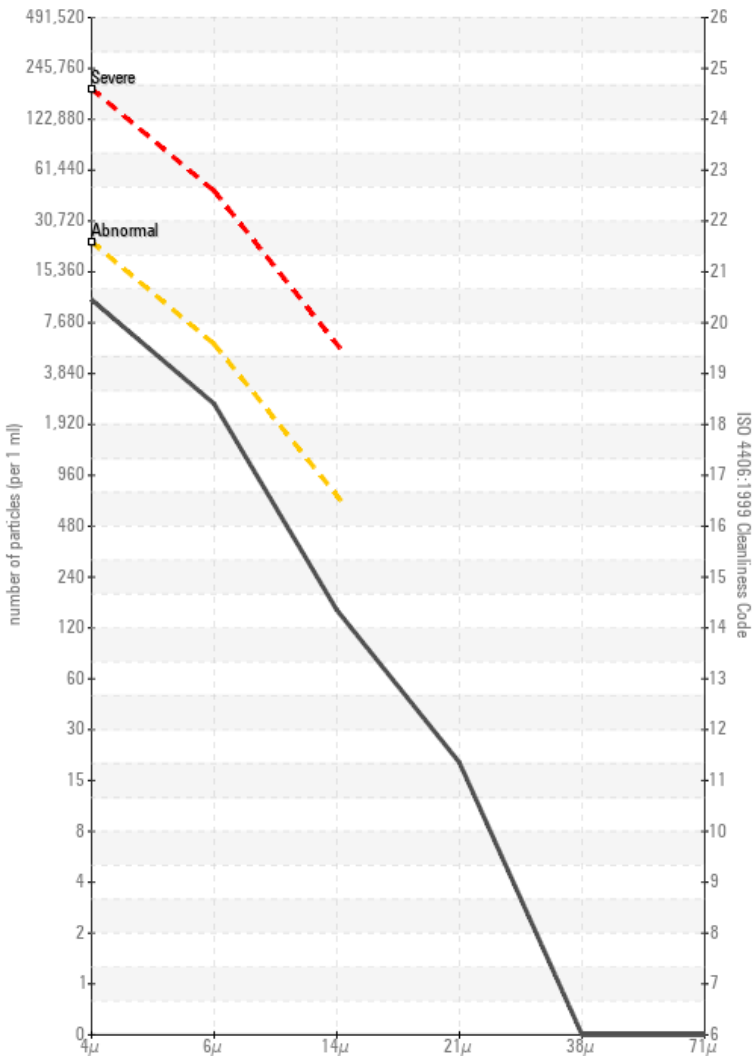
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

