

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 045422-1705 - Hydraulic System

Sample No: LHMC124328

Oil Type: LIEBHERR HYDRAULIC HVI



Sample Information

Sample Number	LHMC124328	LHMC116238	LH0229834	LH0217223
Sample Date	16 Apr 2024	11 Jul 2023	29 Nov 2022	15 Apr 2022
Machine Hours	9921	9805	8143	7593
Oil Hours	3000	0	8143	7593
Oil Changed	Not Changd	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

POTOMAC METALS

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Oil Condition

Visc @ 40°C	cSt	42.5	41.0	39.8	39.0
Acid Number (AN)	mg KOH/g	0.53	0.60	0.69	0.66



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3434	3856	23614	1002
Particles >6µm		644	471	4832	134
Particles >14µm		16	11	325	9
ISO 4406:1999 (c)		19/17/11	19/16/11	22/19/16	17/14/10
Silicon	ppm	2	3	4	4
Sodium	ppm	3	2	<1	1
Potassium	ppm	<1	0	<1	<1

Diagnosis

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



Wear Metals

Iron	ppm	4	5	7	7
Copper	ppm	3	4	6	6
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	<1	<1	0	0



Additives

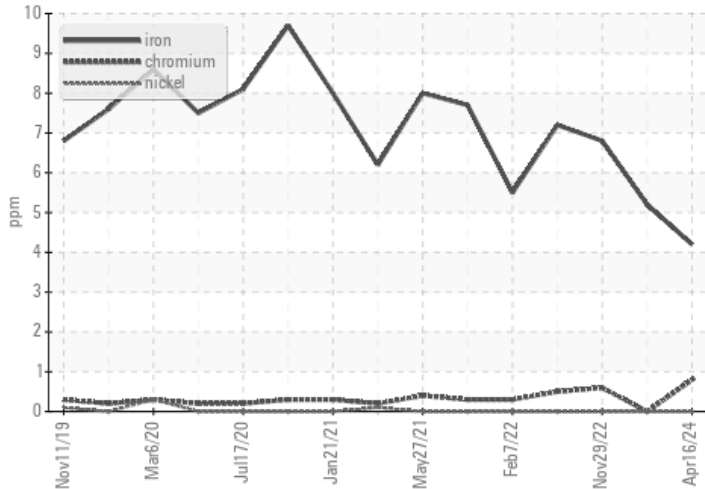
Calcium	ppm	296	421	448	547
Magnesium	ppm	44	2	10	9
Zinc	ppm	493	560	557	645
Phosphorus	ppm	430	454	426	486
Barium	ppm	0	0	0	0
Boron	ppm	0	0	<1	2

Depot: POTSTE
Unique No: 11033282
Signed: Don Baldrige
Report Date: 20 May 2024

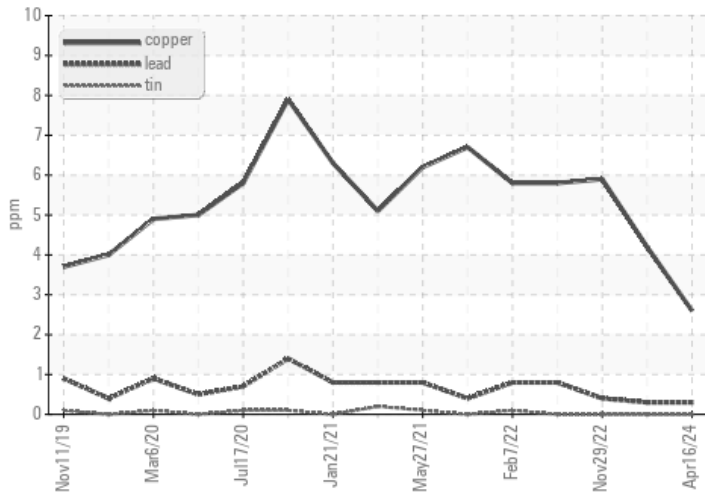


Graphs

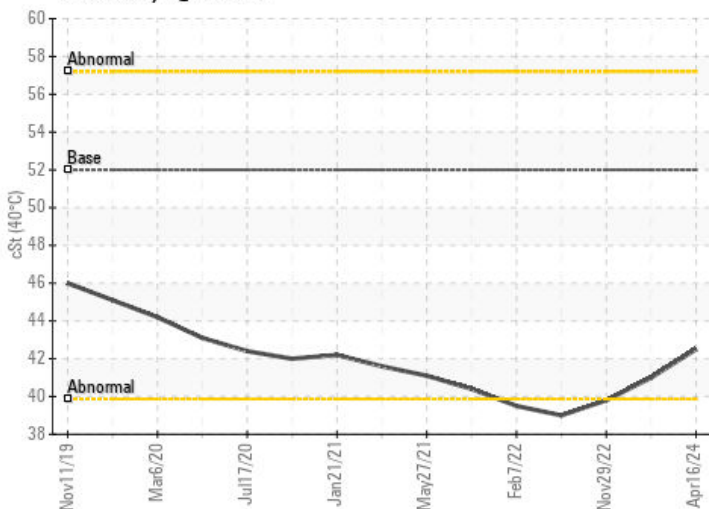
Ferrous Alloys



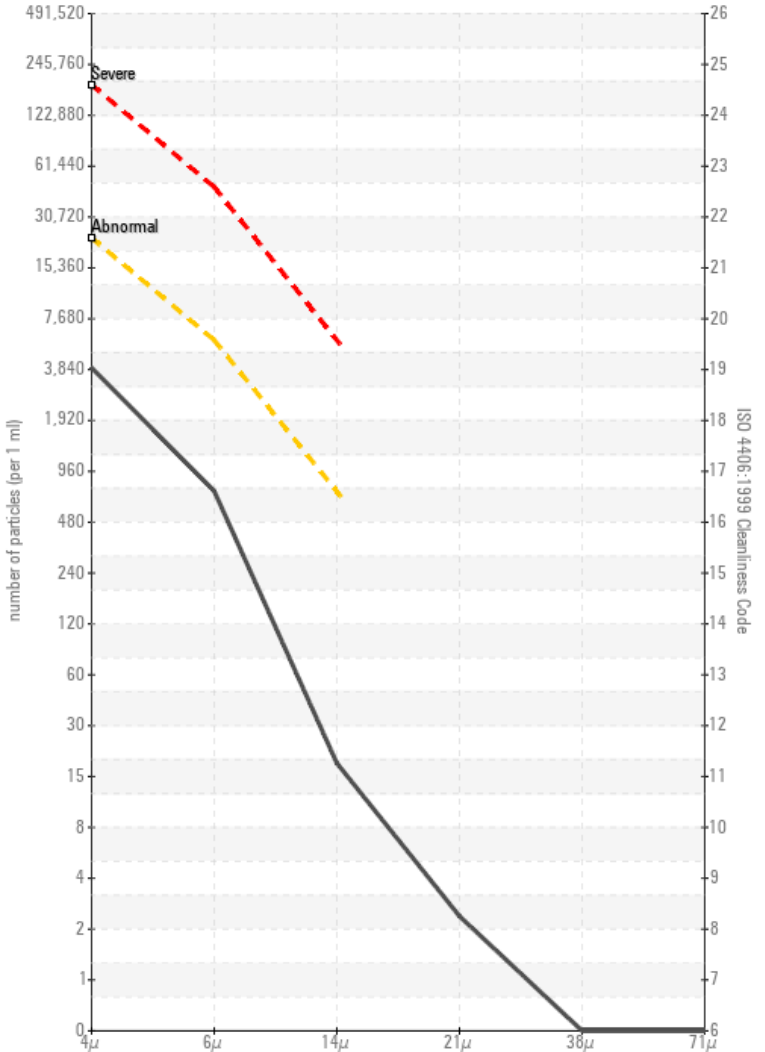
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

