

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 053804-1007 - Hydraulic System

Sample No: LHMC85074

Oil Type: MOBIL DTE 10 EXCEL 46



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SAMPLE INFORMATION

Sample Number	LHMC85074	LHMC62867	LHMC79169	LHMC79163
Sample Date	27 Jun 2023	09 Jan 2023	01 Aug 2020	09 Jul 2020
Machine Hours	25586	24943	21794	20448
Oil Hours	1000	2000	2000	738
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	44.2	43.0	42.3	42.2
Acid Number (AN)	mg KOH/g	0.12	0.11	0.091	0.130



CONTAMINATION

Particles >4µm		4890	16528	5740	4197
Particles >6µm		1431	1684	136	1295
Particles >14µm		172	161	7	185
ISO 4406:1999 (c)		19/18/15	21/18/15	20/14/10	19/17/15
Silicon	ppm	2	3	13	14
Sodium	ppm	0	1	2	2
Potassium	ppm	<1	0	<1	<1



WEAR METALS

Iron	ppm	37	55	23	17
Copper	ppm	2	2	1	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	0	0	<1	0
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	115	110	123	119
Magnesium	ppm	0	1	0	0
Zinc	ppm	14	30	19	16
Phosphorus	ppm	241	366	435	430
Barium	ppm	0	0	0	0
Boron	ppm	0	0	2	0

Diagnosis

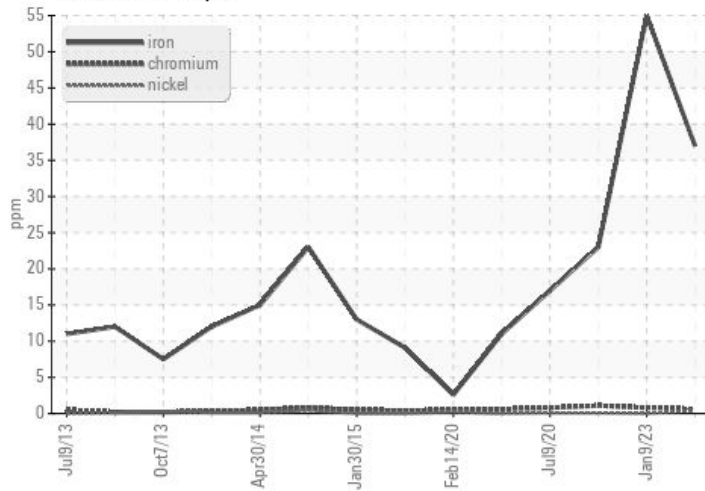
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

Depot: PACTOM
 Unique No: 10546666
 Signed: Don Baldrige
 Report Date: 07 Jul 2023

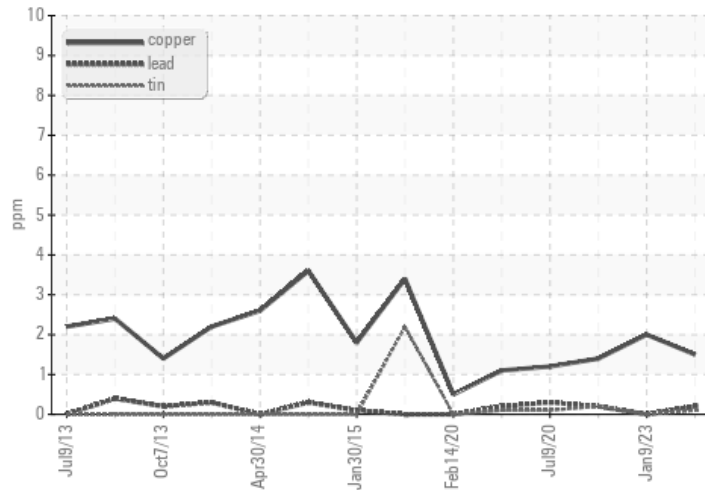


GRAPHS

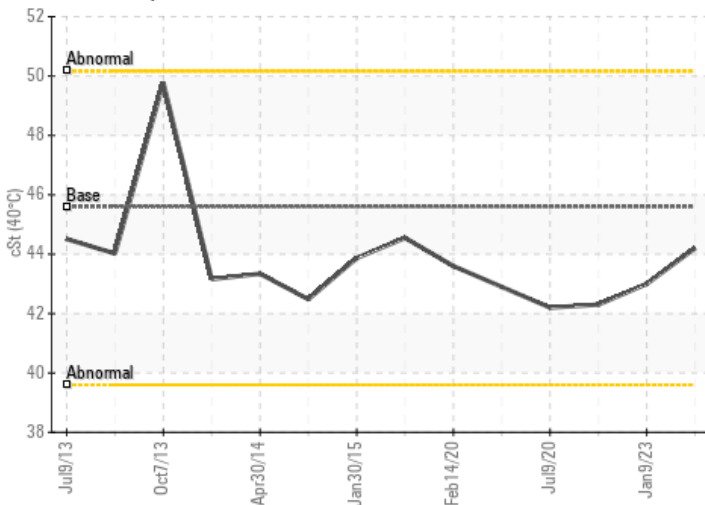
Ferrous Alloys



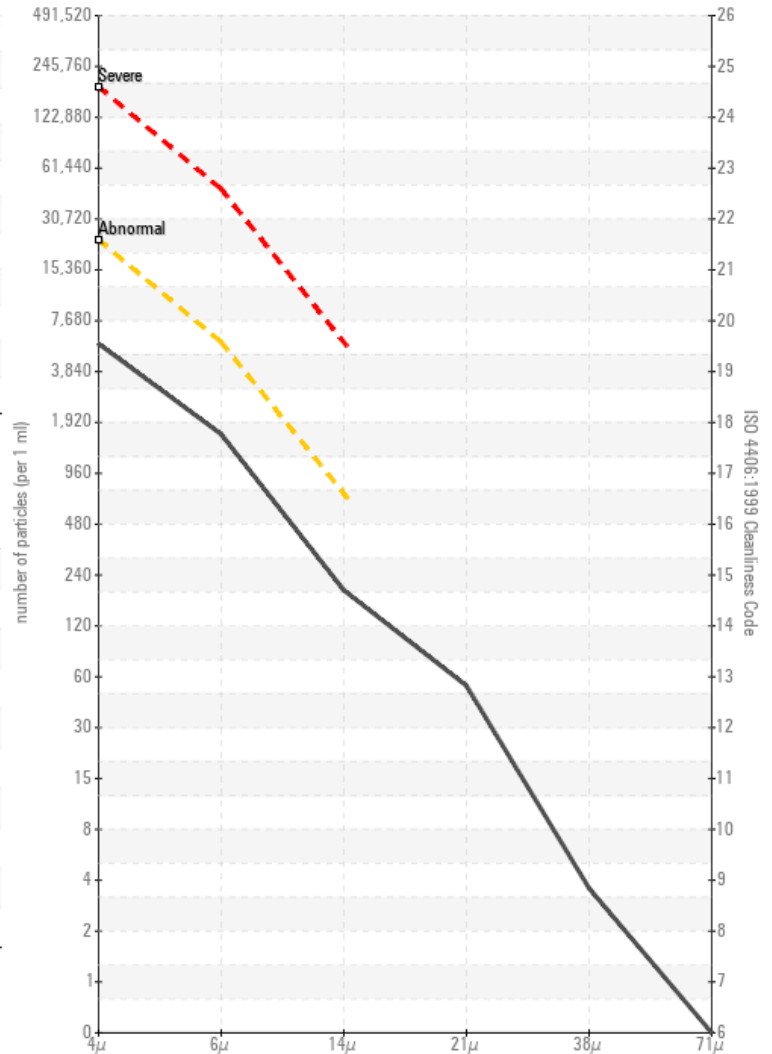
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

