

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-139058 - Hydraulic System

Sample No: LHMC85067

Oil Type: MOBIL DTE 10 EXCEL 46



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SAMPLE INFORMATION

Sample Number	LHMC85067	LHMC51606	LHMC51595	LHMC62872
Sample Date	17 Aug 2023	23 Jun 2023	04 May 2023	09 Mar 2023
Machine Hours	4098	3586	3081	2575
Oil Hours	2000	1500	1000	500
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	44.9	45.4	45.2	45.5
Acid Number (AN)	mg KOH/g	0.22	0.48	0.39	0.57



CONTAMINATION

Water	%	---	0.374	0.125	0.188
Particles >4µm		1329	---	522	3026
Particles >6µm		339	---	284	276
Particles >14µm		25	---	48	14
ISO 4406:1999 (c)		18/16/12	---	16/15/13	19/15/11
Silicon	ppm	1	<1	1	1
Sodium	ppm	0	<1	0	<1
Potassium	ppm	2	1	1	0



WEAR METALS

Iron	ppm	7	5	4	2
Copper	ppm	2	2	2	1
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	1	0	0	<1
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	429	448	480	505
Magnesium	ppm	2	2	2	4
Zinc	ppm	197	221	228	217
Phosphorus	ppm	252	279	279	283
Barium	ppm	0	<1	0	0
Boron	ppm	0	0	0	0

Diagnosis

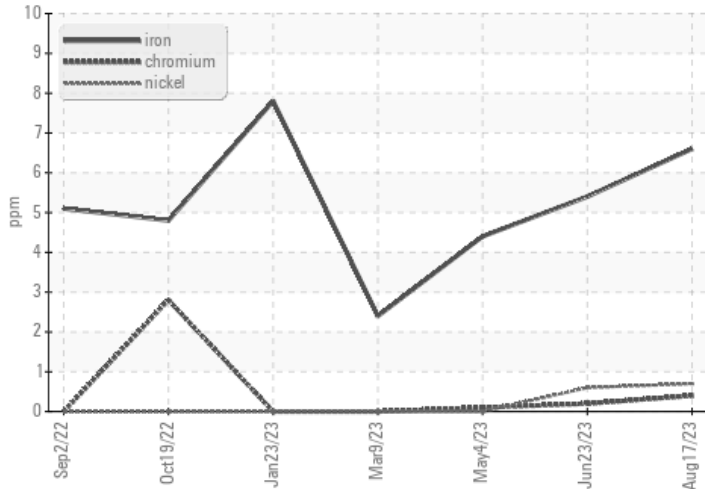
Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition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

Depot: PACTOM
Unique No: 10619559
Signed: Don Baldrige
Report Date: 28 Aug 2023

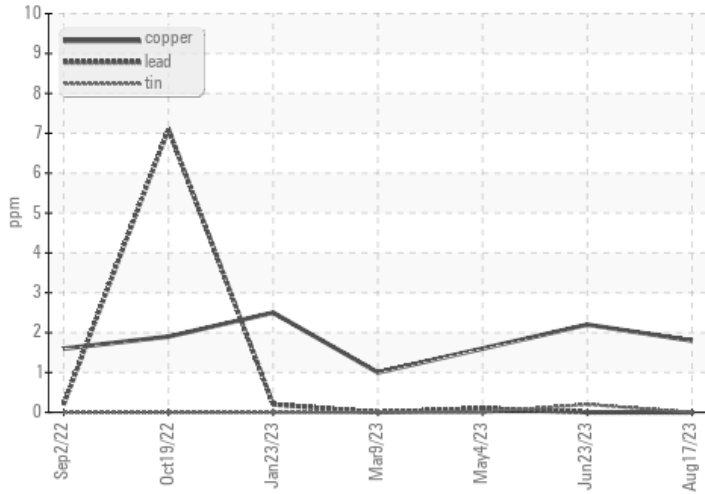


GRAPHS

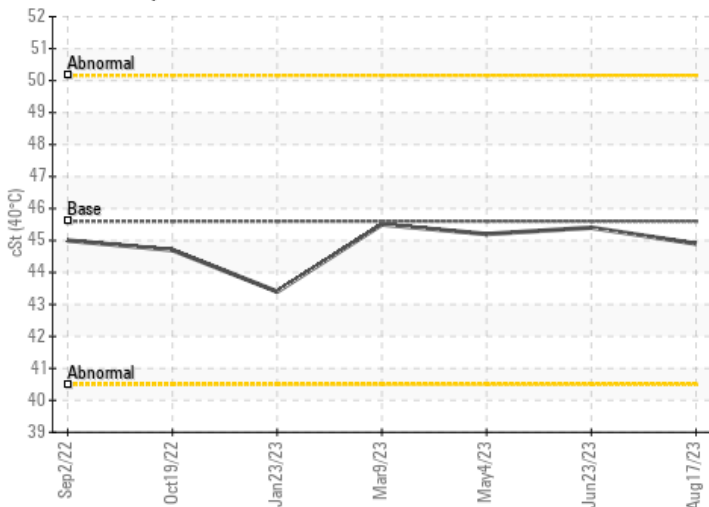
Ferrous Alloys



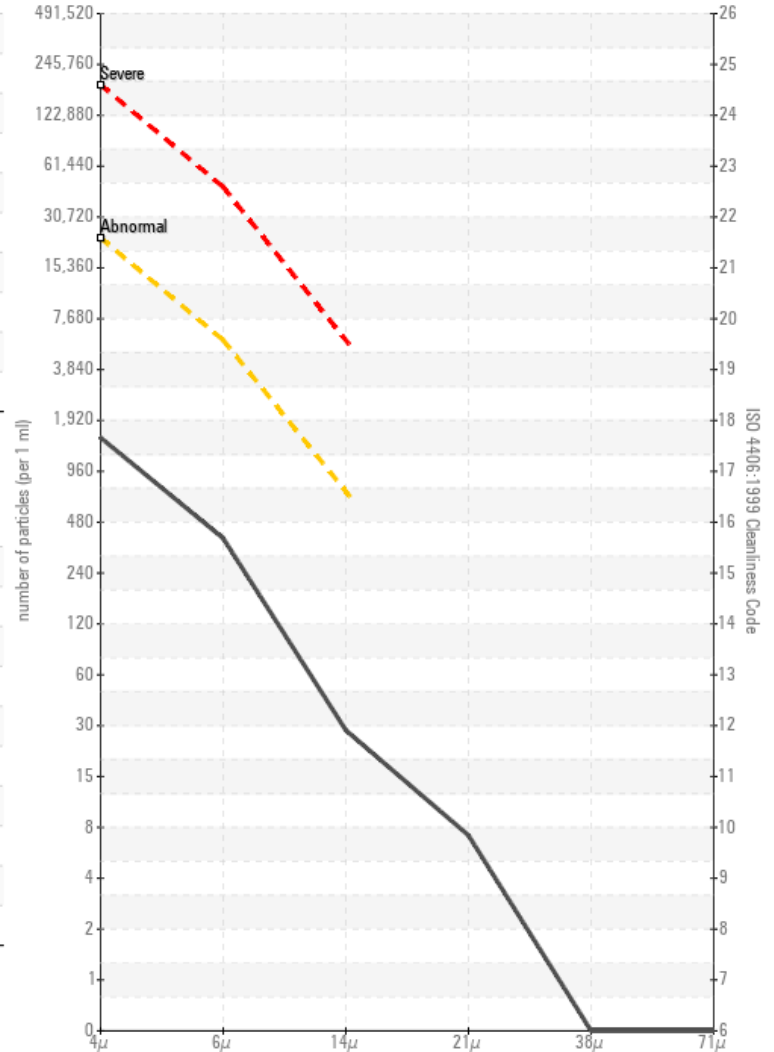
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

