

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924C063248-1049 - Hydraulic System

Sample No: LH0244691

Oil Type: MV 47



SAMPLE INFORMATION

Sample Number	LH0244691	LHMC110706	LH0203805	LHMC124991
Sample Date	13 Jun 2023	12 Dec 2022	09 Nov 2021	11 Jan 2021
Machine Hours	14367	14026	12824	11737
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

DUMES INC

1640 NORTH 6TH ST

VINCENNES, IN

US 47591

Contact:



OIL CONDITION

Visc @ 40°C	cSt	49.4	49.5	49.4	48.2
Acid Number (AN)	mg KOH/g	0.76	0.68	0.667	0.722

T:

F:



CONTAMINATION

Particles >4µm		12897	8042	6467	3653
Particles >6µm		2070	435	1823	463
Particles >14µm		89	22	174	39
ISO 4406:1999 (c)		21/18/14	20/16/12	20/18/15	19/16/12
Silicon	ppm	7	6	5	4
Sodium	ppm	5	4	4	4
Potassium	ppm	4	0	1	0

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other 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	159	143	132	118
Copper	ppm	18	17	18	16
Lead	ppm	4	2	2	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	3	2	2	1
Chromium	ppm	7	5	4	3
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	1	<1	<1	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	3	2	2	2
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	902	834	995	1057
Magnesium	ppm	6	5	7	4
Zinc	ppm	673	600	635	656
Phosphorus	ppm	512	466	488	483
Barium	ppm	0	0	0	0
Boron	ppm	0	0	2	0

Depot: DUMVINLH

Unique No: 10536613

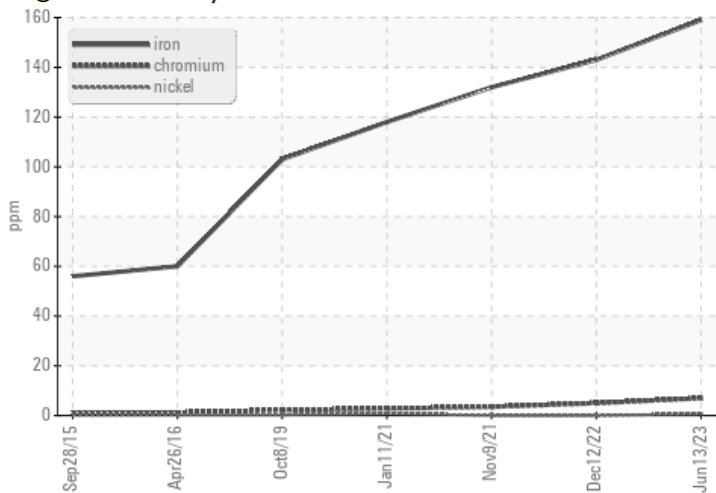
Signed: Doug Bogart

Report Date: 02 Jul 2023

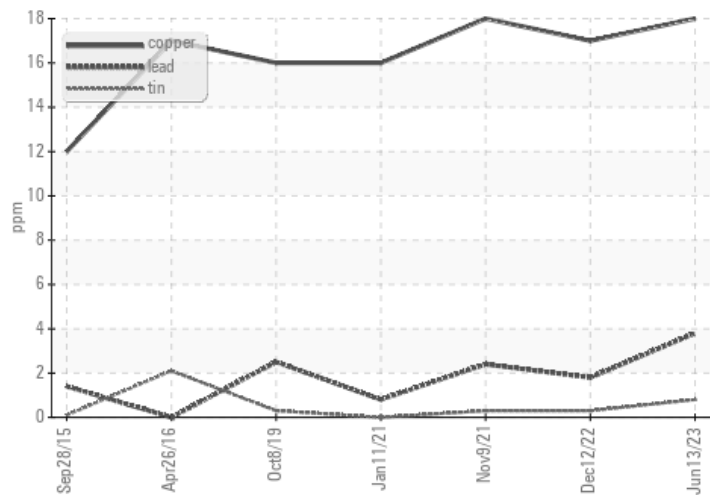


GRAPHS

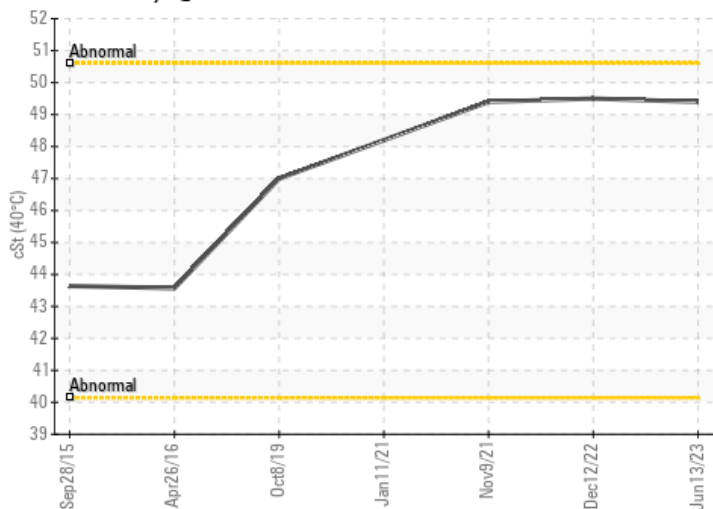
● Ferrous Alloys



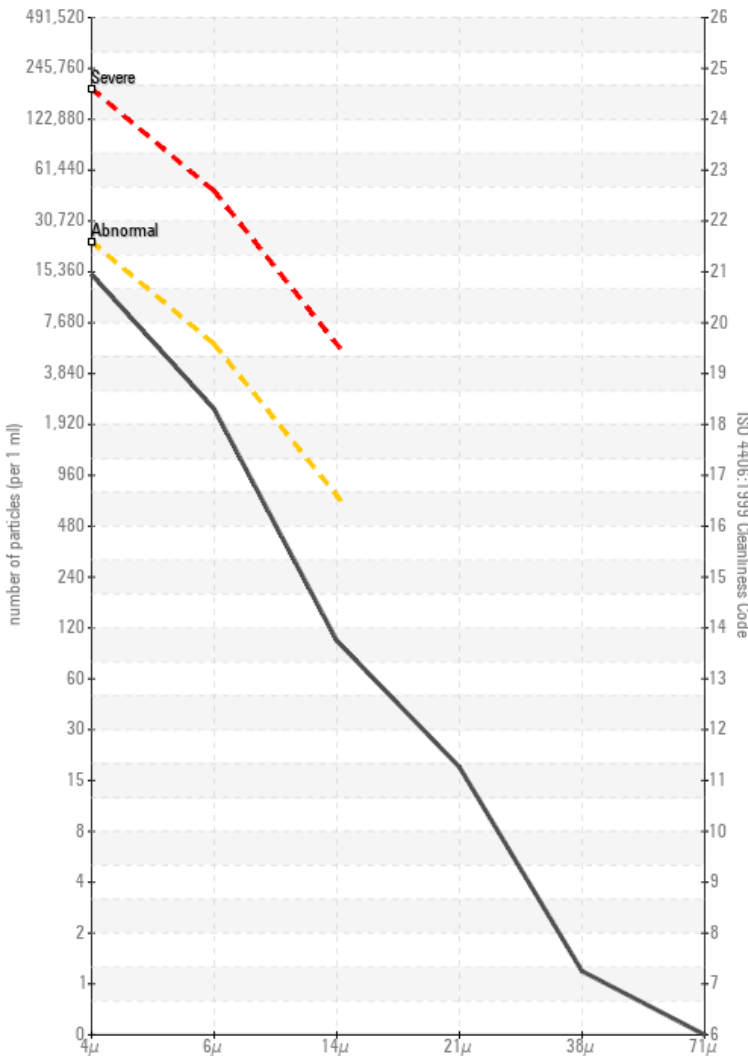
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

