

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924 024089-957 - Hydraulic System

Sample No: LH0243237

Oil Type: MV 47



SAMPLE INFORMATION

Sample Number	LH0243237	LH0157803	LHMC71161	LHMC93184
Sample Date	14 Jun 2023	12 Jan 2021	25 Apr 2016	01 Oct 2015
Machine Hours	1481	16915	14956	14645
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	N/A	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

DUMES INC

1640 NORTH 6TH ST

VINCENNES, IN

US 47591

Contact:



OIL CONDITION

Visc @ 40°C	cSt	65.6	64.6	64.6	66.43
Acid Number (AN)	mg KOH/g	0.39	0.282	0.509	0.527

T:

F:



CONTAMINATION

Particles >4µm		4537	---	285	4438
Particles >6µm		332	---	155	2417
Particles >14µm		16	---	26	411
ISO 4406:1999 (c)		19/16/11	---	15/14/12	19/18/16
Silicon	ppm	2	3	4	4
Sodium	ppm	2	0	2	1
Potassium	ppm	3	<1	2	0

Diagnosis

Resample at the next service interval to monitor. 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	9	14	14	16
Copper	ppm	6	3	5	5
Lead	ppm	2	<1	0	<1
Tin	ppm	<1	<1	4	0
Aluminum	ppm	0	1	1	1
Chromium	ppm	2	7	6	7
Molybdenum	ppm	1	<1	0	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	4	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	142	49	53	59
Magnesium	ppm	20	<1	<1	<1
Zinc	ppm	416	433	429	460
Phosphorus	ppm	332	335	321	352
Barium	ppm	0	0	0	0
Boron	ppm	4	<1	<1	0

Depot: DUMVINLH

Unique No: 10536608

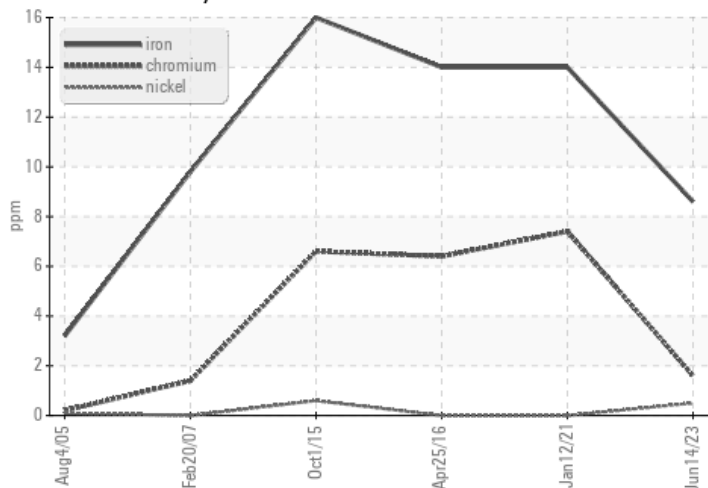
Signed: Wes Davis

Report Date: 02 Jul 2023

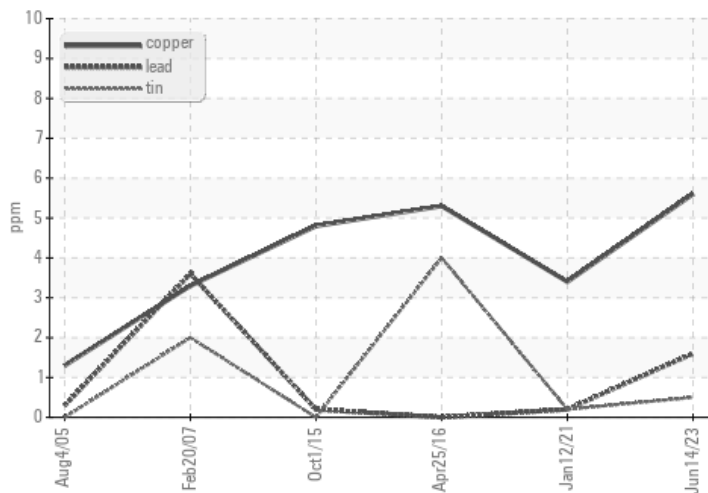


GRAPHS

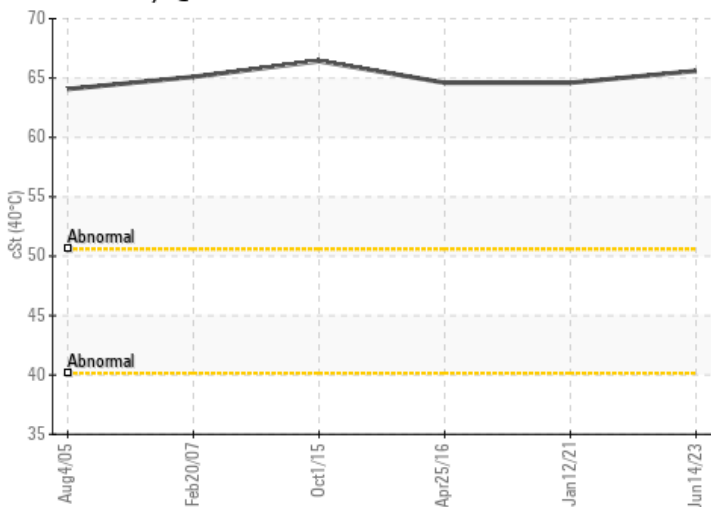
Ferrous Alloys



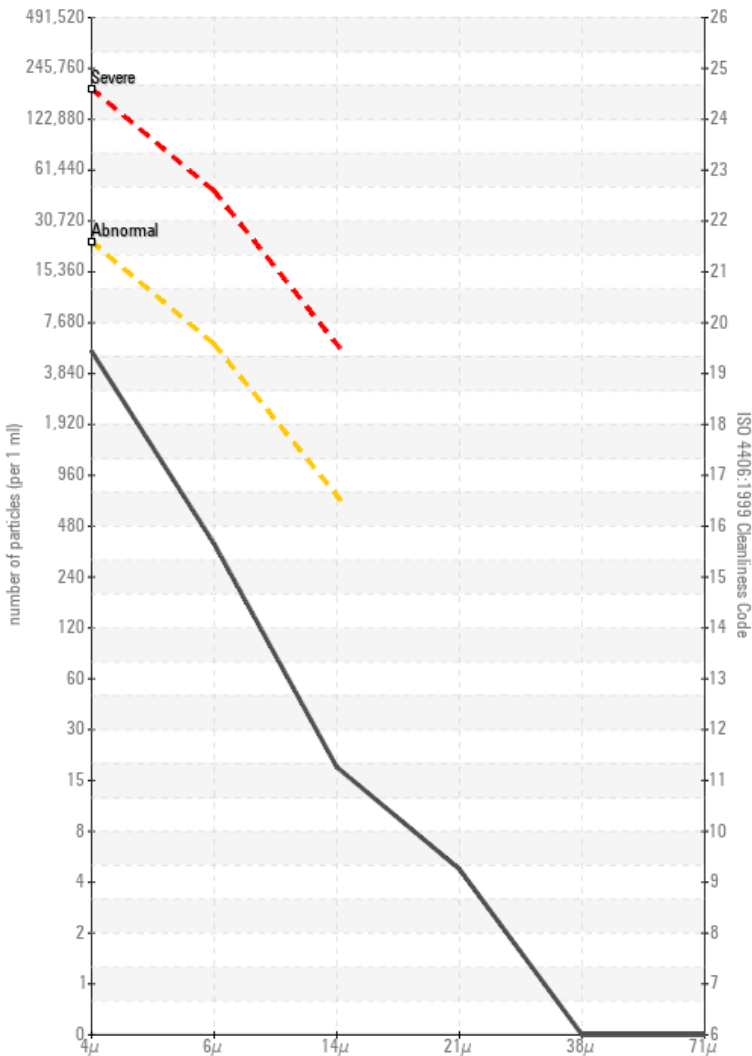
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

