

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 118664-1216 - Hydraulic System

Sample No: LH0270617

Oil Type: AW HYDRAULIC OIL ISO 32



RAM IRON AND METAL

60 Ashwarren Road
TORONTO, ON
CA M3J 1Z5
Contact: PETER RACCO
PETER@RAMIRON.COM
T: (416)630-4545
F: (416)630-5258



SAMPLE INFORMATION

Sample Number	LH0270617	LH0257018	LH0251451	LH0247450
Sample Date	05 Jul 2023	12 Apr 2023	09 Feb 2023	13 Jan 2023
Machine Hours	10728	10117	9549	9244
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	34.1	34.3	32.3	32.3
-------------	-----	------	------	------	------



CONTAMINATION

Water	%	---	---	0.030	---
Particles >4µm		7404	42471	9546	3453
Particles >6µm		1382	9004	2116	733
Particles >14µm		50	189	56	27
ISO 4406:1999 (c)		20/18/13	23/20/15	20/18/13	19/17/12
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	<1	<1	1	<1
Potassium	ppm	<1	0	<1	<1



WEAR METALS

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



ADDITIVES

Calcium	ppm	85	87	77	72
Magnesium	ppm	6	6	6	6
Zinc	ppm	439	435	336	321
Phosphorus	ppm	376	382	298	279
Barium	ppm	0	0	0	0
Boron	ppm	2	<1	<1	<1

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 condition of the oil is acceptable for the time in service.

Depot: RAMTOR
Unique No: 5607795
Signed: Wes Davis
Report Date: 24 Jul 2023

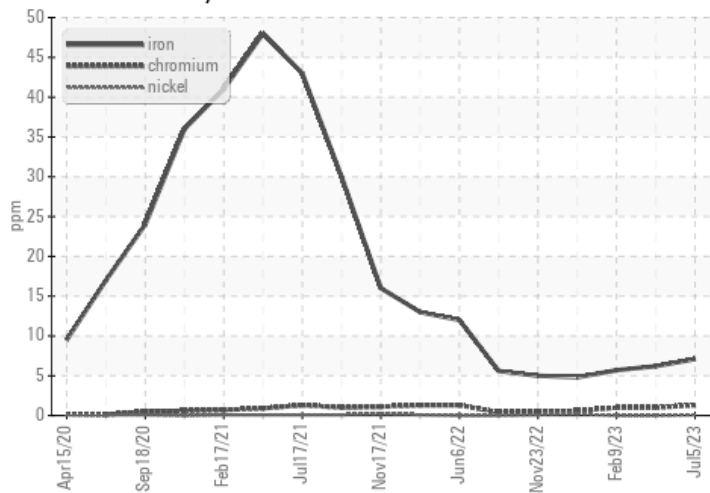
LIEBHERR

CONSTRUCTION EQUIPMENT

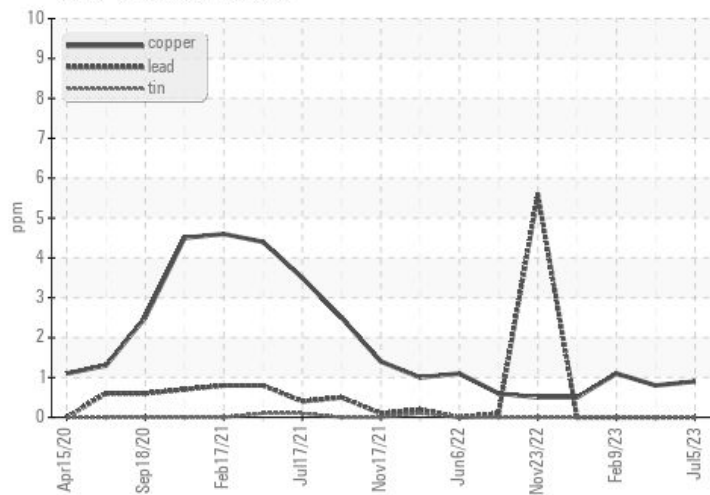


GRAPHS

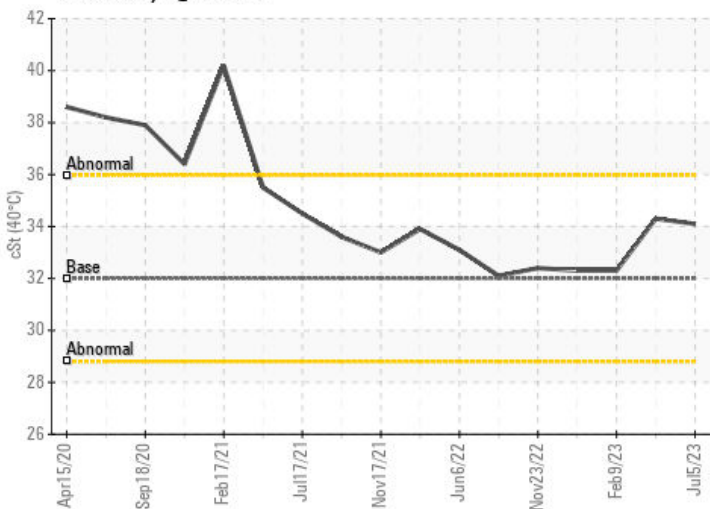
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

