

LIEBHERR

CONSTRUCTION EQUIPMENT



[SUBLATOS] LIEBHERR R934 54888 - Hydraulic System

Sample No: LH0225018

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH0225018	LH0269743	LH0225118	LH0224988
Sample Date	21 Jan 2024	30 Aug 2023	29 May 2023	14 Mar 2023
Machine Hours	1940	1423	971	577
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	39.6	39.4	39.9	42.2



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		16604	4229	8271	24797
Particles >6µm		1014	1403	2712	8996
Particles >14µm		93	180	181	947
ISO 4406:1999 (c)		21/17/14	19/18/15	20/19/15	22/20/17
Silicon	ppm	4	4	3	3
Sodium	ppm	2	2	2	2
Potassium	ppm	1	<1	<1	<1

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.



WEAR METALS

Iron	ppm	9	8	8	7
Copper	ppm	6	6	6	6
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

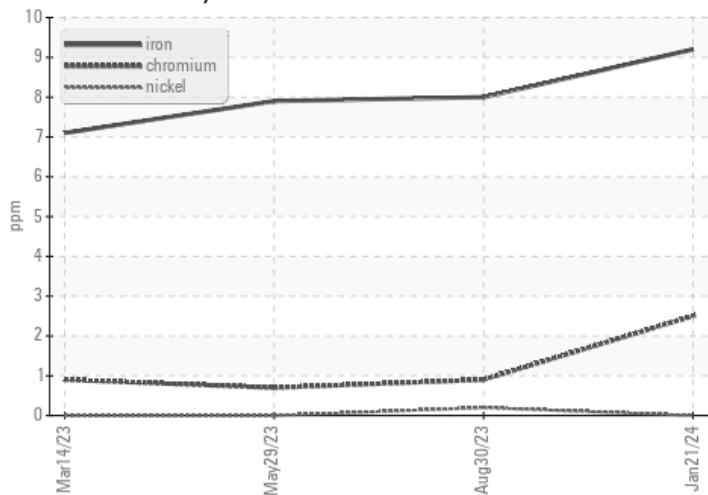
Calcium	ppm	774	807	931	956
Magnesium	ppm	6	7	7	8
Zinc	ppm	679	686	743	711
Phosphorus	ppm	573	610	631	669
Barium	ppm	0	0	1	0
Boron	ppm	<1	<1	<1	<1

Depot: LIESPR
 Unique No: 5722545
 Signed: Wes Davis
 Report Date: 06 Feb 2024

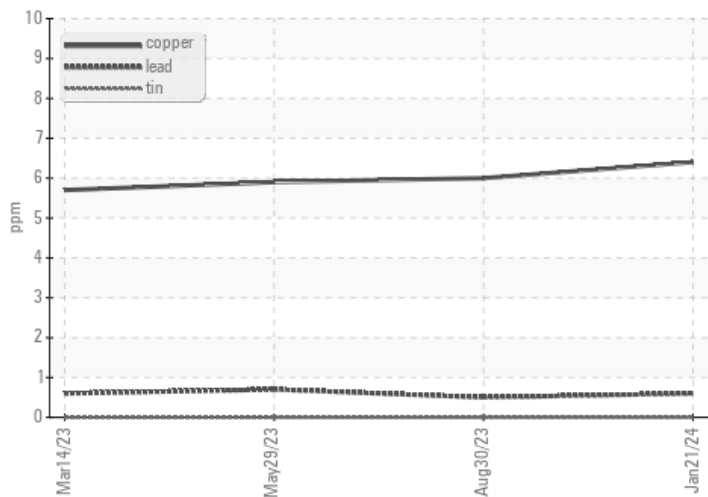


GRAPHS

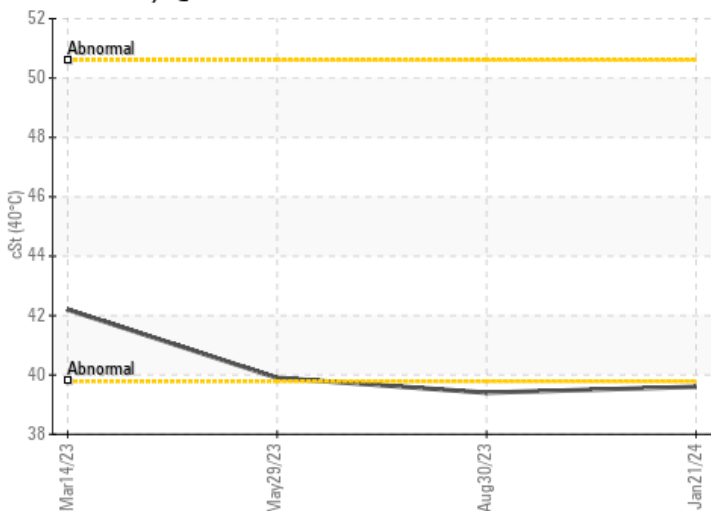
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

