

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 055862-1334 - Hydraulic System

Sample No: LH
 Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH	LH	LH	LH0213668
Sample Date	22 Feb 2024	07 Aug 2023	23 Apr 2022	23 Apr 2022
Machine Hours	9056	8000	7000	5000
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	N/A	Not Changd
Sample Status	ABNORMAL	ABNORMAL	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.1	44.6	42.7	44.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		92697	44071	115720	23928
Particles >6µm		20058	6974	43375	866
Particles >14µm		2716	392	1586	13
ISO 4406:1999 (c)		24/22/19	23/20/16	24/23/18	22/17/11
Silicon	ppm	7	5	4	4
Sodium	ppm	<1	1	<1	<1
Potassium	ppm	3	1	0	1

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	30	22	25	25
Copper	ppm	3	2	2	3
Lead	ppm	4	3	3	5
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	2	2	2
Chromium	ppm	1	1	1	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

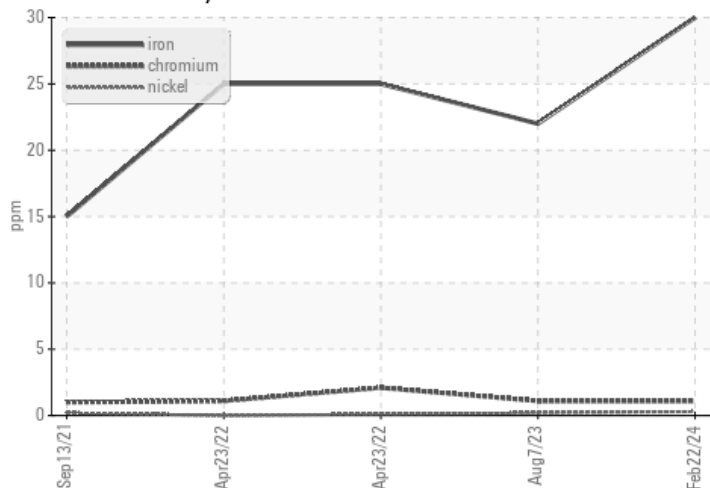
Calcium	ppm	1486	1477	1047	855
Magnesium	ppm	12	10	9	9
Zinc	ppm	864	886	842	817
Phosphorus	ppm	728	752	733	684
Barium	ppm	0	0	0	0
Boron	ppm	8	8	10	<1

Depot: BIRWIN
 Unique No: 5736083
 Signed: Wes Davis
 Report Date: 01 Mar 2024

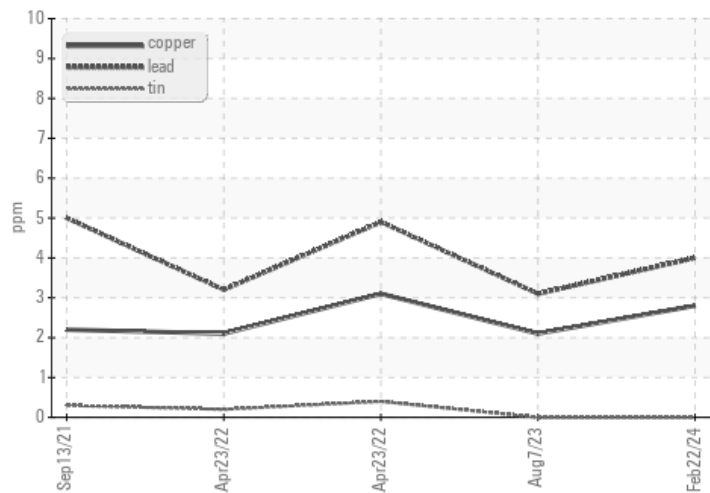


GRAPHS

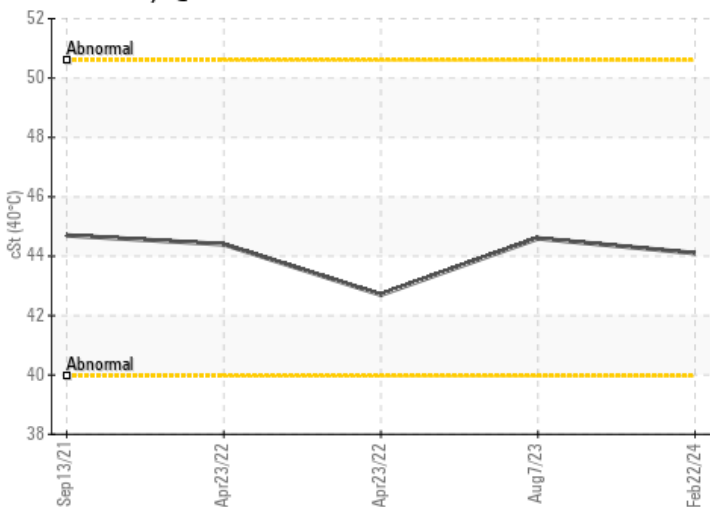
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

