LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR A924C 057657-1049 - Hydraulic System

Sample No: LH0272291

Oil Type: MV 46

INTEGRITY METALS
835 EAST INDUSTRIAL
MORRISTOWN, IN
US 46161
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Sample Information

Sample Number		**LH0272291**	LH0244712	LH0230028	LH0207612
Sample Date		**06 May 2024**	08 May 2023	01 Dec 2022	01 Mar 2022
Machine Hours		**26835**	24881	23991	23434
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**NORMAL**	NORMAL	NORMAL	ATTENTION

Oil Condition

Visc @ 40°C	cSt	**63.9**	62.6	59.3	56.7
Acid Number (AN)	mg KOH/g	**0.29**	0.23	0.35	0.41

Contamination

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**4856**	6983	11527	23464
Particles >6µm		**721**	742	1090	1805
Particles >14µm		**30**	26	33	96
ISO 4406:1999 (c)		**19/17/12**	20/17/12	21/17/12	22/18/14
Silicon	ppm	**1**	<1	<1	2
Sodium	ppm	**2**	0	<1	0
Potassium	ppm	**<1**	1	0	<1

Wear Metals

Iron	ppm	**7**	6	7	11
Copper	ppm	**2**	<1	1	2
Lead	ppm	**0**	<1	0	<1
Tin	ppm	**<1**	0	0	0
Aluminum	ppm	**<1**	0	<1	1
Chromium	ppm	**<1**	<1	<1	<1
Molybdenum	ppm	**0**	<1	<1	<1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	0	<1
Manganese	ppm	**<1**	0	0	<1
Vanadium	ppm	**0**	0	0	0

Additives

Calcium	ppm	**87**	86	103	132
Magnesium	ppm	**2**	3	3	6
Zinc	ppm	**448**	444	425	458
Phosphorus	ppm	**363**	332	354	356
Barium	ppm	**0**	0	0	0
Boron	ppm	**0**	0	0	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.

Depot: INTMORLH
Unique No: 11017993
Signed: Wes Davis
Report Date: 08 May 2024

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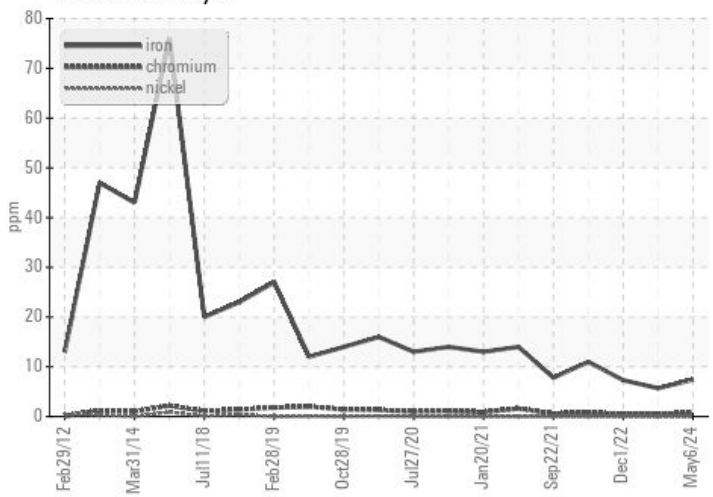
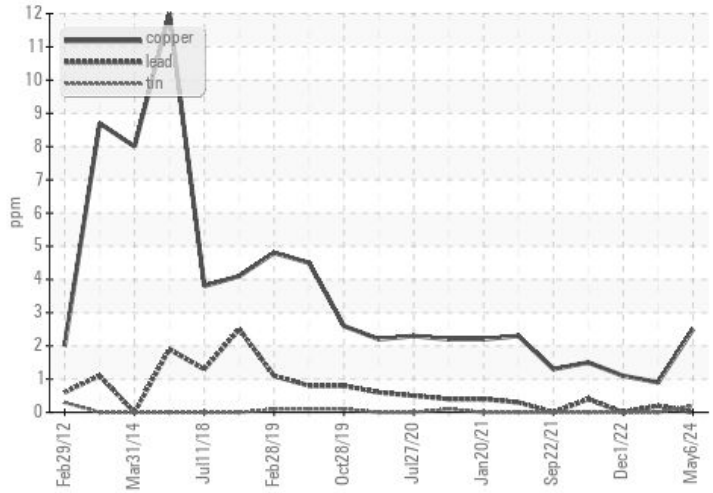
Graphs

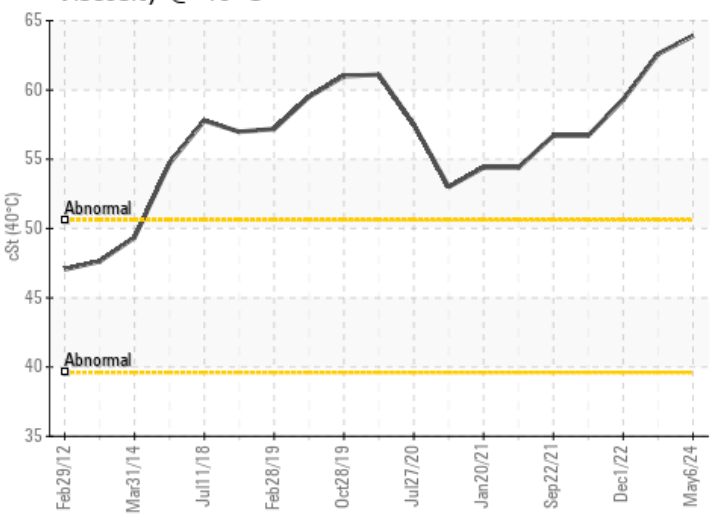
Ferrous Alloys



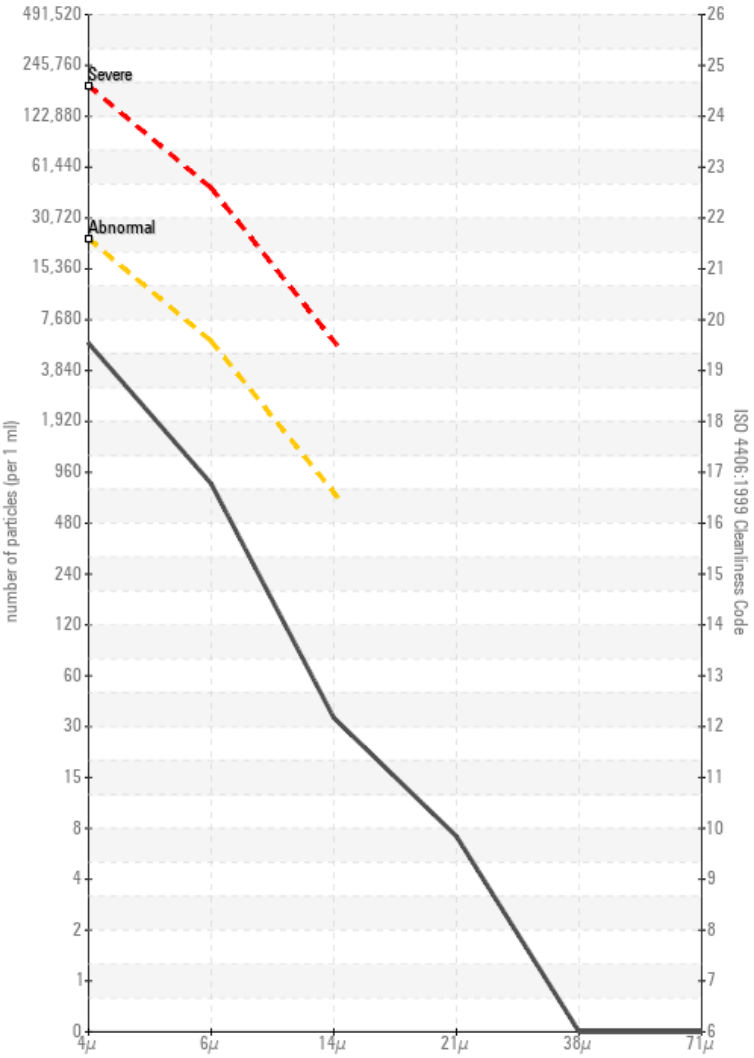
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number