

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 045866-1007 - Hydraulic System

Sample No: LH0259163

Oil Type: MV 47



SAMPLE INFORMATION

Sample Number	LH0259163	LH0244875	LH0229942	LH0217025
Sample Date	11 Oct 2023	04 Apr 2023	09 Aug 2022	07 Feb 2022
Machine Hours	28406	27390	26180	25181
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

INTEGRITY METALS

835 EAST INDUSTRIAL
MORRISTOWN, IN
US 46161

Contact: HEIDI KERSTIENS
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T: (765)763-8000
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OIL CONDITION

Visc @ 40°C	cSt	62.5	61.4	61.4	60.9
Acid Number (AN)	mg KOH/g	0.47	0.45	0.41	0.35



CONTAMINATION

Particles >4µm		3418	2871	1474	10515
Particles >6µm		749	300	217	726
Particles >14µm		35	24	7	16
ISO 4406:1999 (c)		19/17/12	19/15/12	18/15/10	21/17/11
Silicon	ppm	2	<1	<1	<1
Sodium	ppm	3	1	0	<1
Potassium	ppm	<1	0	0	0



WEAR METALS

Iron	ppm	13	10	7	6
Copper	ppm	6	5	2	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	1	1
Aluminum	ppm	<1	<1	2	<1
Chromium	ppm	2	2	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	137	150	140	147
Magnesium	ppm	<1	6	6	3
Zinc	ppm	473	449	432	483
Phosphorus	ppm	356	346	340	391
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	0

Diagnosis

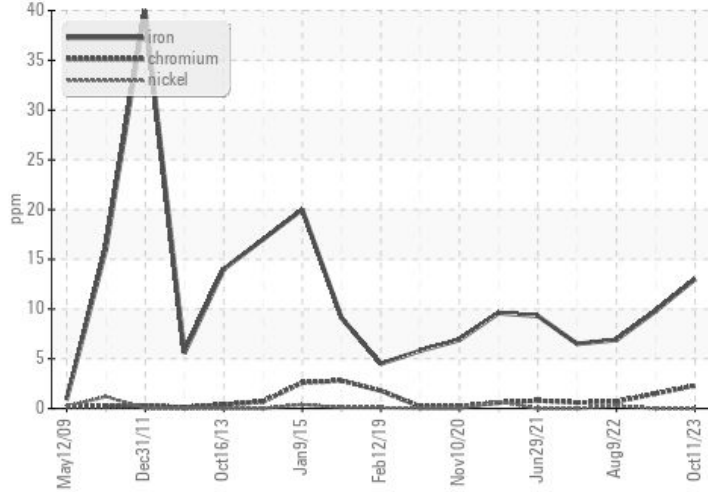
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: INTMORLH
Unique No: 10702783
Signed: Wes Davis
Report Date: 23 Oct 2023

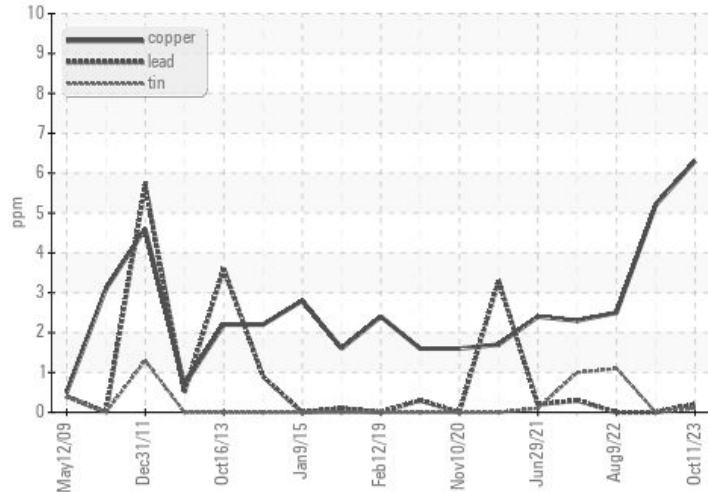


GRAPHS

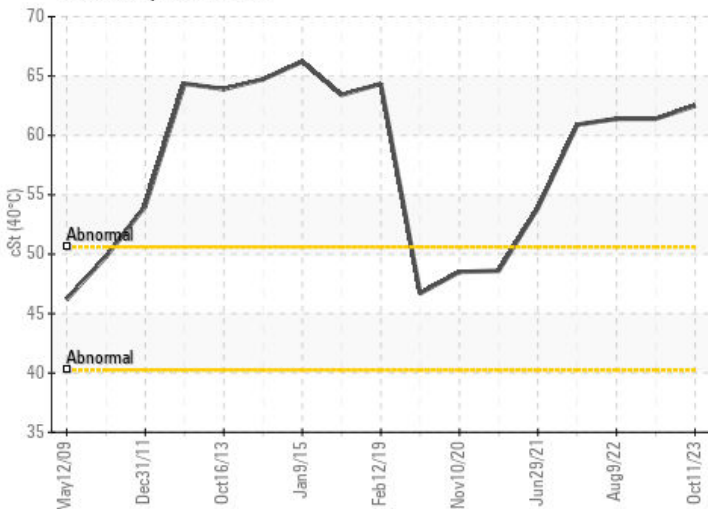
Ferrous Alloys



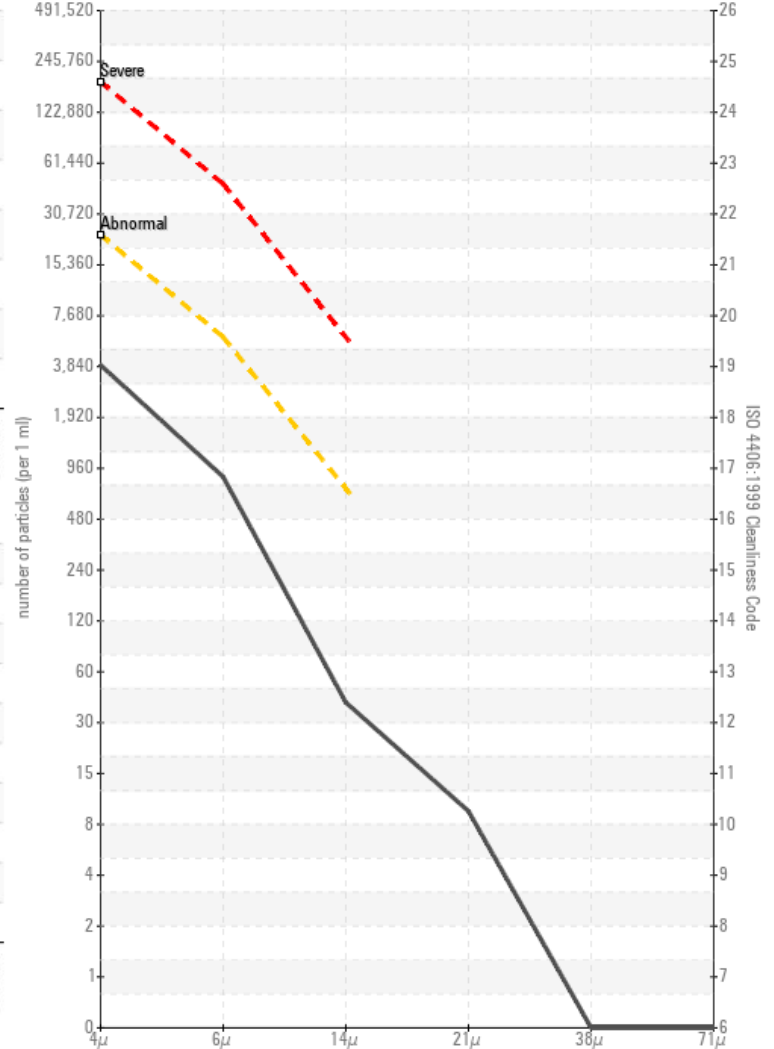
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

