LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR A934C 030061-1007 - Hydraulic System

Sample No: LH0244852

Oil Type: AW HYDRAULIC OIL ISO 46

NILES IRON & METAL CO. INC.
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NILES, OH
US 44446
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SAMPLE INFORMATION

Sample Number		**LH0244852**	LH0244661	LH0244375	LH0207275
Sample Date		**08 Jan 2024**	16 Jul 2023	06 Dec 2022	20 Jan 2022
Machine Hours		**32124**	14552	30870	29887
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	N/A	Not Changd	Not Changd
Sample Status		**ABNORMAL**	NORMAL	ATTENTION	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**43.9**	43.6	43.8	44.1
Acid Number (AN)	mg KOH/g	**0.35**	0.39	0.39	0.33

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**45369**	15590	30883	17107
Particles >6µm		**3695**	770	1865	483
Particles >14µm		**25**	26	10	7
ISO 4406:1999 (c)		**23/19/12**	21/17/12	22/18/10	21/16/10
Silicon	ppm	**0**	<1	<1	<1
Sodium	ppm	**0**	<1	<1	0
Potassium	ppm	**1**	<1	0	0

WEAR METALS

Iron	ppm	**10**	4	5	2
Copper	ppm	**2**	<1	1	<1
Lead	ppm	**0**	0	0	0
Tin	ppm	**0**	0	0	0
Aluminum	ppm	**2**	0	0	<1
Chromium	ppm	**4**	1	<1	2
Molybdenum	ppm	**<1**	2	1	<1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**<1**	<1	<1	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**0**	<1	0	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**108**	122	97	101
Magnesium	ppm	**22**	28	14	17
Zinc	ppm	**480**	517	472	438
Phosphorus	ppm	**337**	405	388	351
Barium	ppm	**5**	0	0	0
Boron	ppm	**2**	3	1	4

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: NILNIL
Unique No: 10869399
Signed: Don Baldridge
Report Date: 08 Feb 2024

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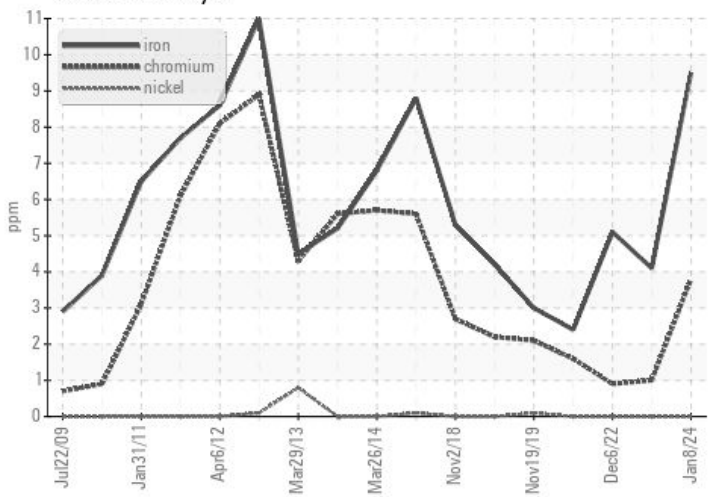
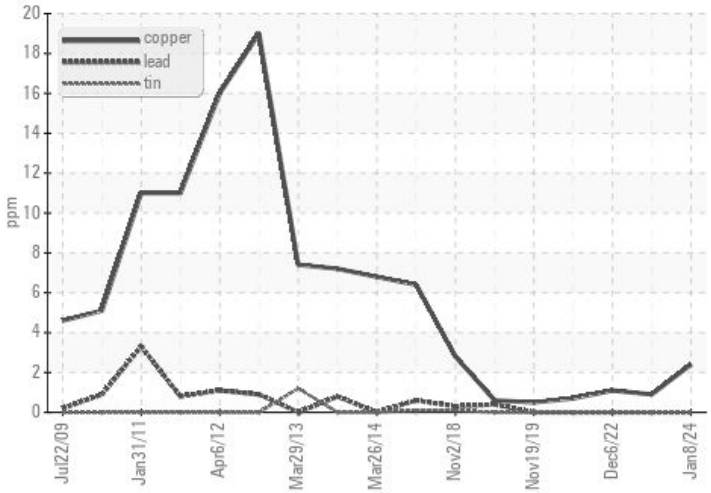
GRAPHS

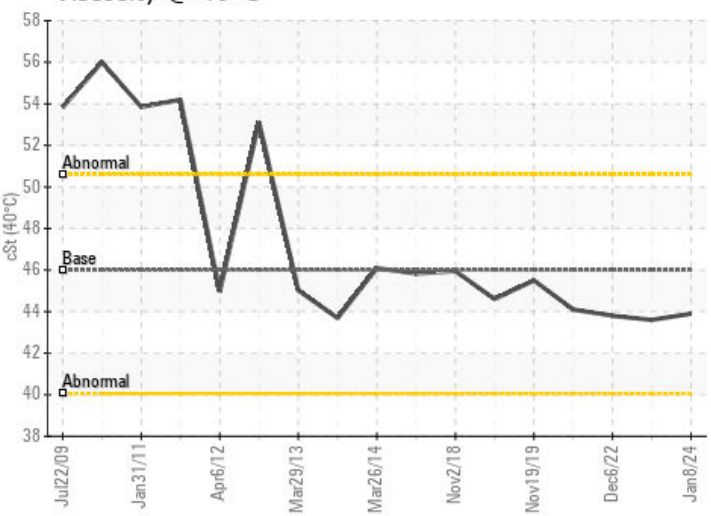
Ferrous Alloys



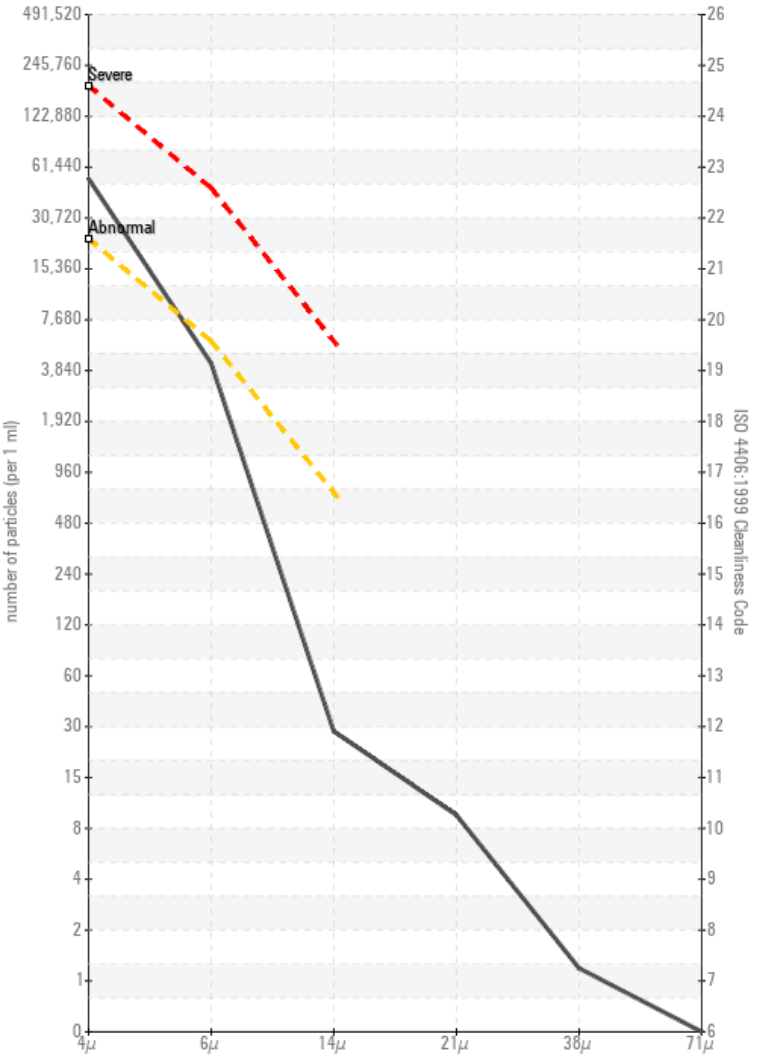
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number