LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR L580 040770-1170 - Hydraulic System

Sample No: LH0268670

Oil Type: LIEBHERR HYDRAULIC BASIC 68

LIEBHERR EQUIPMENT SOURCE
8200 FAYETTEVILLE ROAD
RALEIGH, NC
US 27603
Contact: JOSEPH GERMEROTH
joseph.germeroth@liebherr.com
T:
F: (919)329-0084

SAMPLE INFORMATION

Sample Number		**LH0268670**	LH0267403	LH0264338	LH0174205
Sample Date		**15 Feb 2024**	22 Nov 2023	08 Aug 2023	28 Apr 2023
Machine Hours		**10135**	9737	9297	8817
Oil Hours		**400**	400	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ATTENTION**	NORMAL	ATTENTION	ATTENTION

OIL CONDITION

Visc @ 40°C	cSt	**54.6**	55.6	57.0	51.52
Acid Number (AN)	mg KOH/g	**1.29**	0.74	0.80	0.709

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**27600**	8578	30930	16253
Particles >6µm		**7054**	1619	3480	2255
Particles >14µm		**348**	77	44	84
ISO 4406:1999 (c)		**22/20/16**	20/18/13	22/19/13	21/18/14
Silicon	ppm	**5**	4	5	4
Sodium	ppm	**3**	3	2	0
Potassium	ppm	**<1**	0	0	0

WEAR METALS

Iron	ppm	**6**	4	6	9
Copper	ppm	**2**	2	2	3
Lead	ppm	**2**	0	<1	0
Tin	ppm	**<1**	0	<1	0
Aluminum	ppm	**2**	<1	3	1
Chromium	ppm	**0**	<1	<1	<1
Molybdenum	ppm	**2**	2	3	4
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**<1**	<1	0	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	0	<1	<1
Vanadium	ppm	**0**	<1	<1	0

ADDITIVES

Calcium	ppm	**1659**	1542	1888	1576
Magnesium	ppm	**21**	14	23	23
Zinc	ppm	**696**	557	726	629
Phosphorus	ppm	**552**	493	586	500
Barium	ppm	**<1**	0	0	0
Boron	ppm	**30**	27	38	37

Diagnosis

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 light 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: LIEBHERRNC
Unique No: 10885125
Signed: Wes Davis
Report Date: 19 Feb 2024

Report Id: LIEBHERRNC [WUSCAR] 06092272 (Generated: 02/19/2024 11:15:24) Rev: 1

Submitted By: TAYLOR BLALOCK

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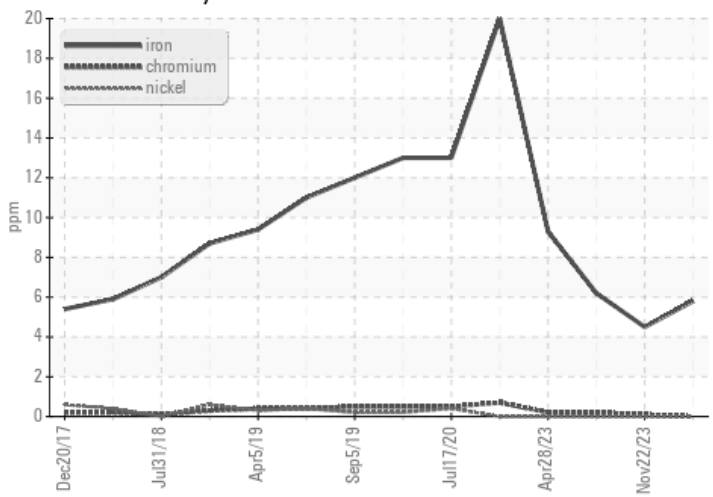
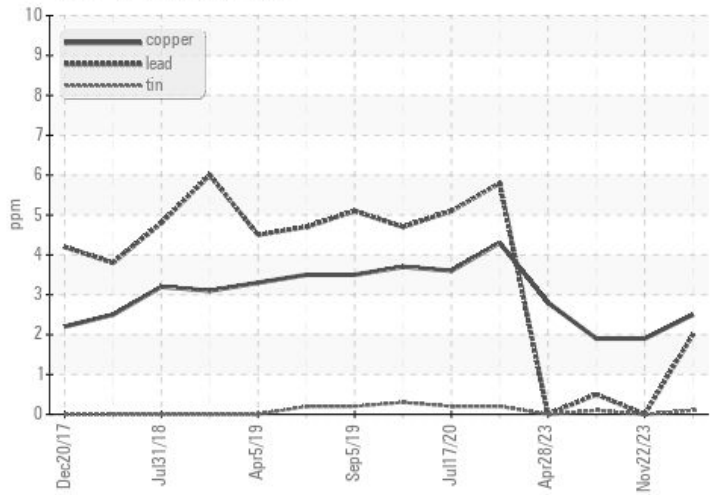
GRAPHS

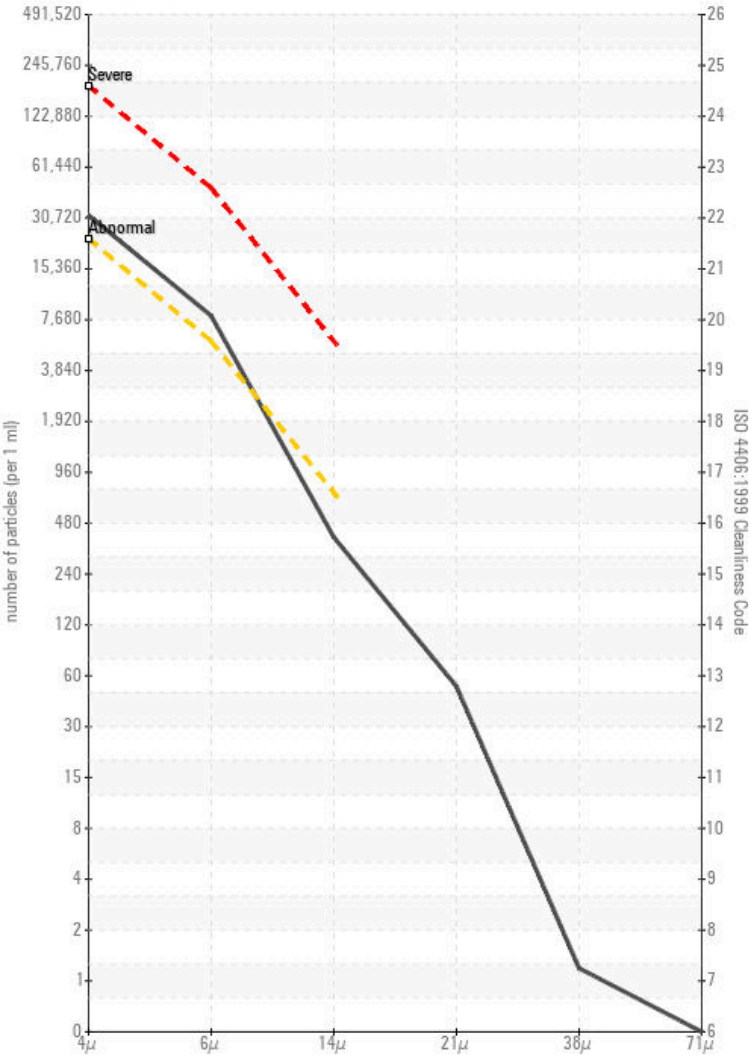
Ferrous Alloys



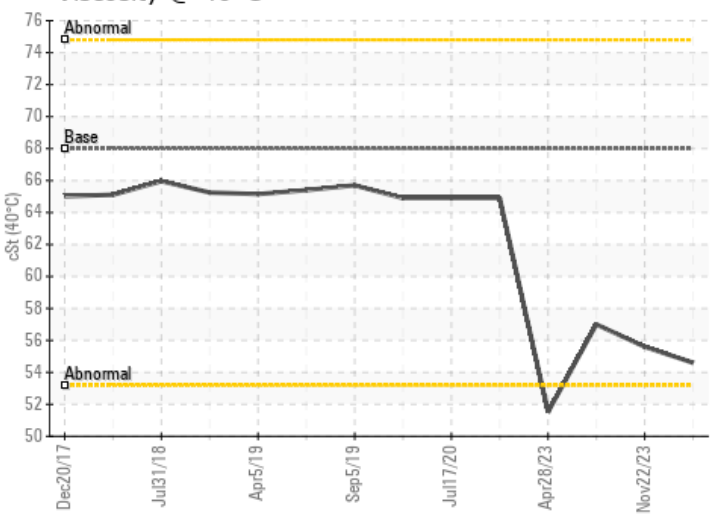
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number