LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR L586 048061-1334 - Hydraulic System

Sample No: LH0258022

Oil Type: LIEBHERR HYDRAULIC HVI

TT & E IRON
1529 WEST GARNER RD
GARNER, NC
US 27529
Contact: MICHAEL STANCIL
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F:

SAMPLE INFORMATION

Sample Number		**LH0258022**	LH0236175	LH0204695	LH0174217
Sample Date		**29 Jun 2023**	14 Sep 2022	03 Sep 2021	12 Nov 2020
Machine Hours		**6839**	5320	2731	693
Oil Hours		**0**	1300	2731	693
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ATTENTION**	NORMAL	ABNORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**37.9**	40.9	47.3	49.2
Acid Number (AN)	mg KOH/g	**0.40**	0.47	1.176	1.311

CONTAMINATION

Particles >4µm		**17535**	19715	26086	14370
Particles >6µm		**1046**	1691	3045	1868
Particles >14µm		**38**	49	116	60
ISO 4406:1999 (c)		**21/17/12**	21/18/13	22/19/14	21/18/13
Silicon	ppm	**1**	<1	4	2
Sodium	ppm	**<1**	0	<1	2
Potassium	ppm	**<1**	1	<1	0

WEAR METALS

Iron	ppm	**8**	4	19	8
Copper	ppm	**1**	<1	5	3
Lead	ppm	**1**	4	20	15
Tin	ppm	**0**	<1	<1	<1
Aluminum	ppm	**1**	1	1	<1
Chromium	ppm	**<1**	0	1	<1
Molybdenum	ppm	**1**	2	0	0
Nickel	ppm	**0**	0	<1	<1
Titanium	ppm	**0**	0	<1	0
Silver	ppm	**<1**	<1	<1	<1
Manganese	ppm	**<1**	<1	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**70**	95	1331	1320
Magnesium	ppm	**9**	11	9	6
Zinc	ppm	**421**	411	692	662
Phosphorus	ppm	**336**	321	564	539
Barium	ppm	**0**	0	0	0
Boron	ppm	**<1**	2	1	3

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

Depot: TTENEW
Unique No: 10561204
Signed: Don Baldridge
Report Date: 18 Jul 2023

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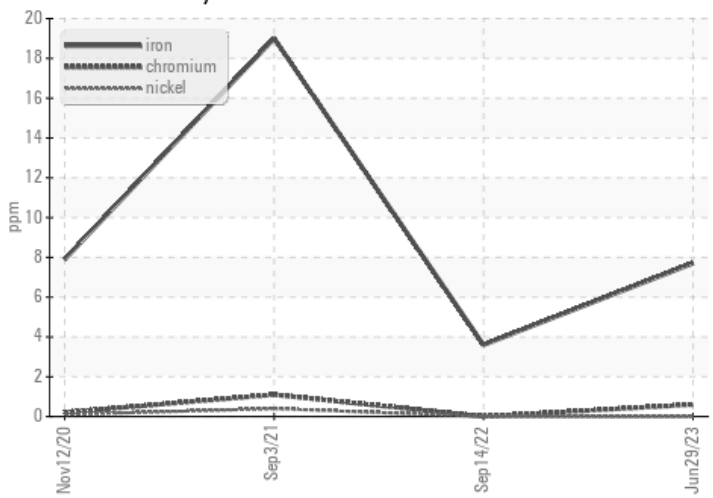
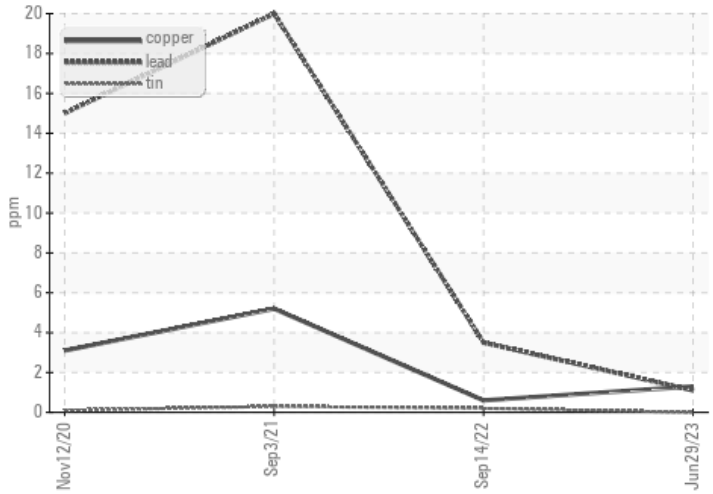
GRAPHS

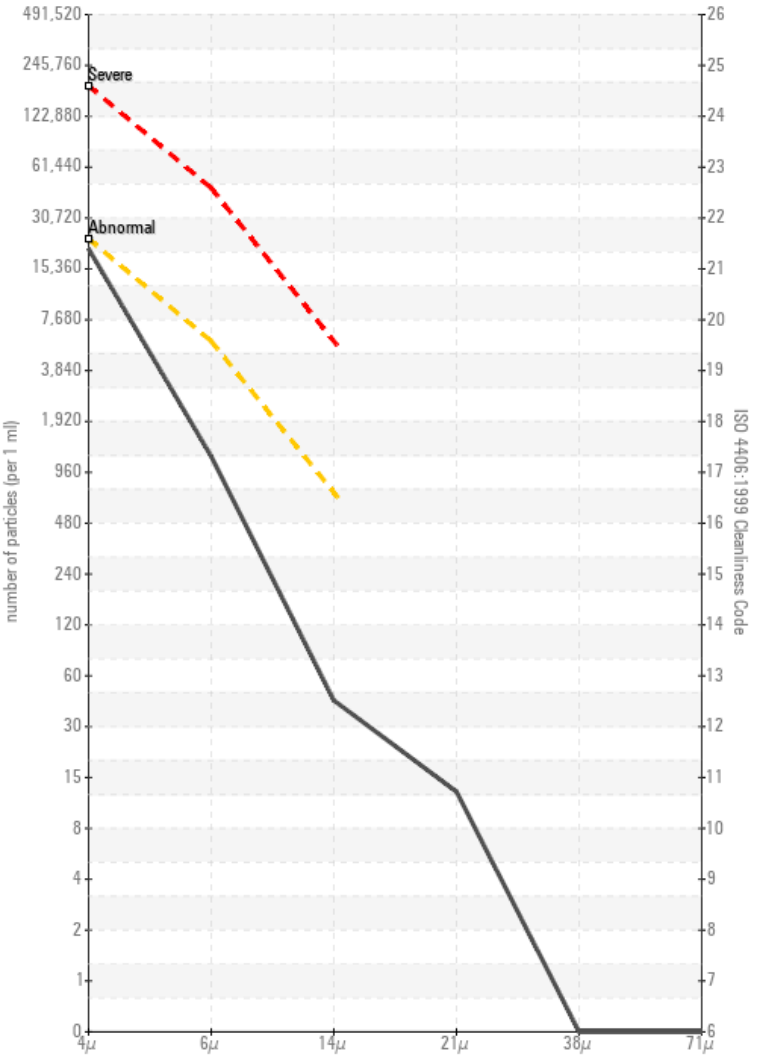
Ferrous Alloys



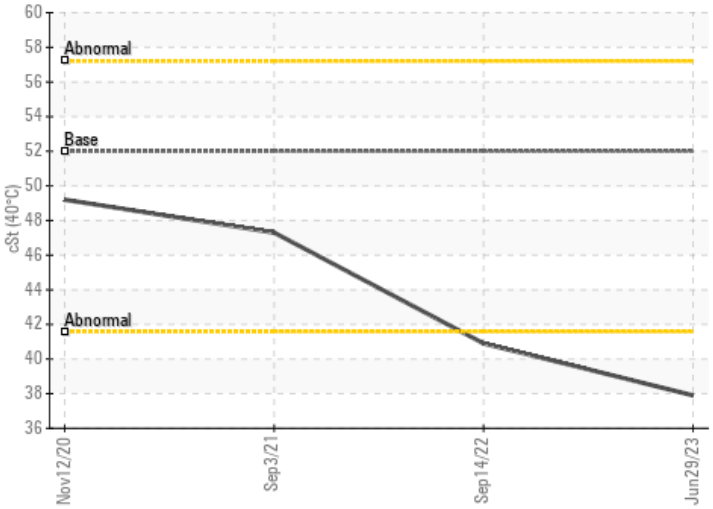
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number