LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LR636 020166-1275 - Hydraulic System

Sample No: LH0244577

Oil Type: LIEBHERR HYDRAULIC HVI

LIEBHERR EQUIPMENT SOURCE
8200 FAYETTEVILLE ROAD
RALEIGH, NC
US 27603
Contact: Timothy Bailey
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T:
F: (919)329-0084

SAMPLE INFORMATION

Sample Number		**LH0244577**	LH0257481	---	---
Sample Date		**10 Jan 2024**	22 May 2023	---	---
Machine Hours		**1535**	914	---	---
Oil Hours		**22**	914	---	---
Oil Changed		**Not Changd**	Not Changd	---	---
Sample Status		**ATTENTION**	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**47.3**	44.6	---	---
Acid Number (AN)	mg KOH/g	**1.02**	1.15	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**20505**	45562	---	---
Particles >6µm		**3014**	5206	---	---
Particles >14µm		**113**	44	---	---
ISO 4406:1999 (c)		**22/19/14**	23/20/13	---	---
Silicon	ppm	**3**	3	---	---
Sodium	ppm	**6**	4	---	---
Potassium	ppm	**0**	2	---	---

WEAR METALS

Iron	ppm	**8**	9	---	---
Copper	ppm	**9**	9	---	---
Lead	ppm	**0**	1	---	---
Tin	ppm	**0**	0	---	---
Aluminum	ppm	**<1**	0	---	---
Chromium	ppm	**0**	<1	---	---
Molybdenum	ppm	**0**	0	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**0**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**1371**	1376	---	---
Magnesium	ppm	**7**	7	---	---
Zinc	ppm	**611**	696	---	---
Phosphorus	ppm	**518**	576	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**0**	0	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate 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: 10830618
Signed: Don Baldridge
Report Date: 15 Jan 2024

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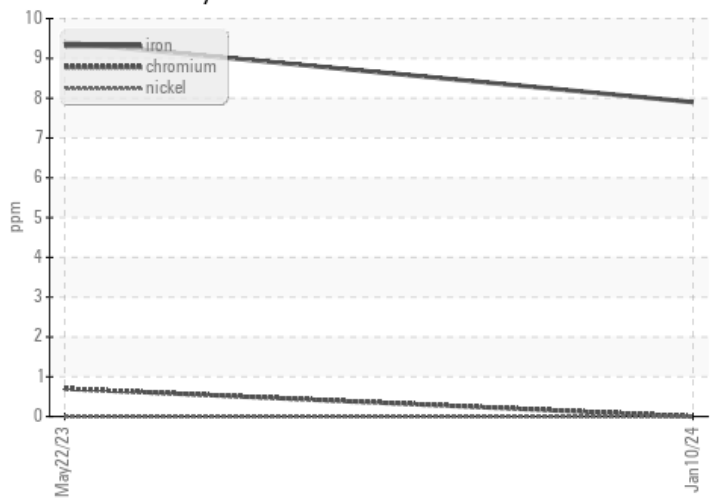
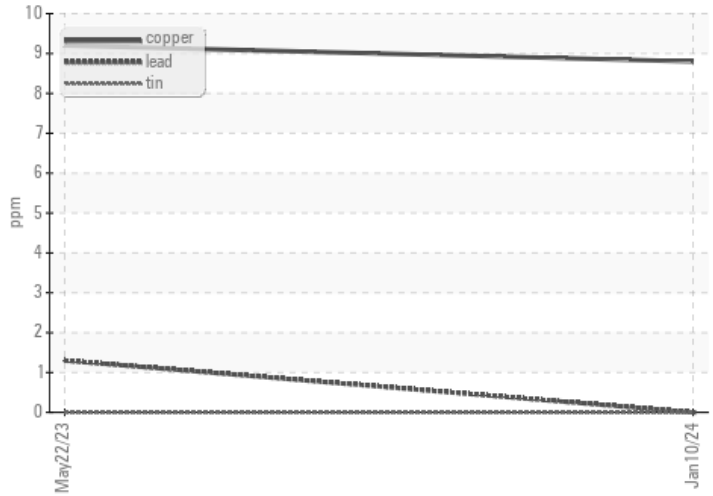
GRAPHS

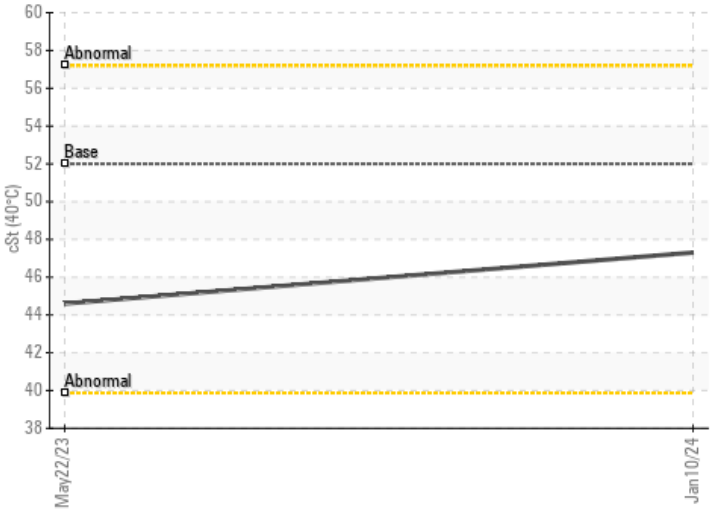
Ferrous Alloys



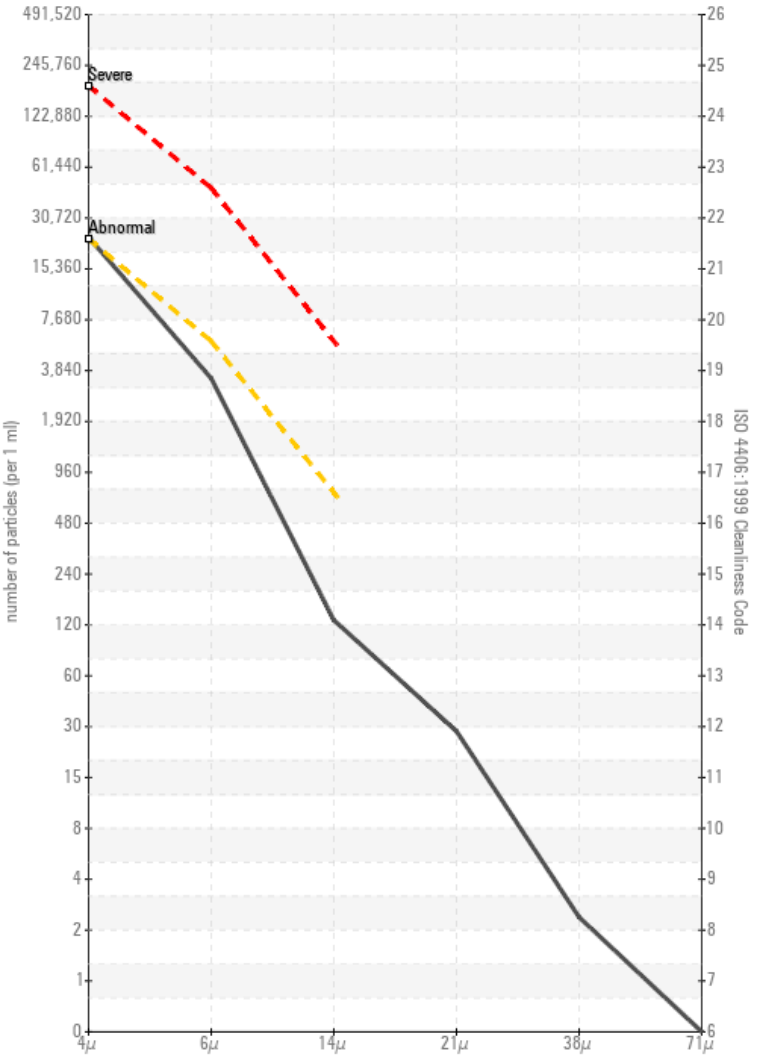
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number