

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 1414-56018 - Hydraulic System

Sample No: LH06027141

Oil Type: FIRE-RESISTANT FLUID ISO 46



SAMPLE INFORMATION

Sample Number	LH06027141	LH05835903	LH05785580	LH05725413
Sample Date	05 Dec 2023	01 May 2023	06 Mar 2023	26 Dec 2022
Machine Hours	0	13020	12081	0
Oil Hours	15017	0	1208	10993
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

VERSO CORP - QUINNESEC MILL
W6791 US HWY 2
QUINNESEC, MI
US 49876
Contact: ERIC LARSON
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T:
F:



OIL CONDITION

Visc @ 40°C	cSt	43.7	45.1	44.0	43.2
Acid Number (AN)	mg KOH/g	0.93	1.07	0.78	0.77



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		14484	12123	8973	16451
Particles >6µm		149	1275	472	564
Particles >14µm		7	71	25	17
ISO 4406:1999 (c)		21/14/10	21/17/13	20/16/12	21/16/11
Silicon	ppm	1	2	2	2
Sodium	ppm	0	0	<1	0
Potassium	ppm	1	1	0	2

Diagnosis

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



WEAR METALS

Iron	ppm	20	16	23	38
Copper	ppm	1	<1	<1	2
Lead	ppm	2	1	1	3
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	0	<1	<1
Chromium	ppm	4	2	3	4
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

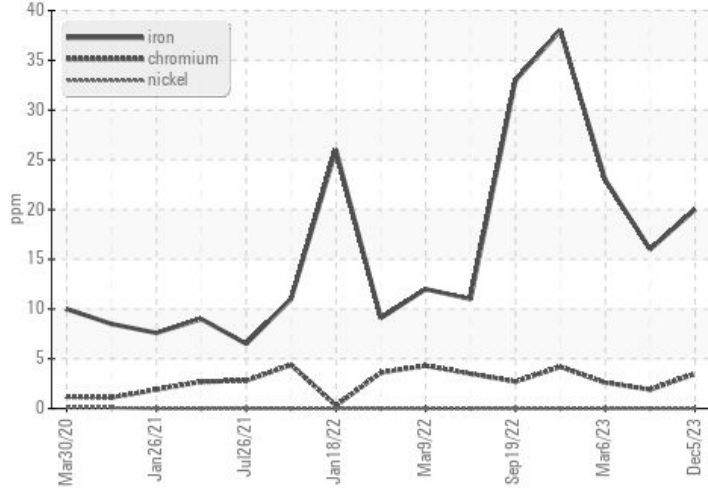
Calcium	ppm	1330	1370	1347	1308
Magnesium	ppm	4	4	9	4
Zinc	ppm	663	696	580	561
Phosphorus	ppm	572	596	487	482
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VERQUI
Unique No: 10776932
Signed: Don Baldrige
Report Date: 08 Dec 2023

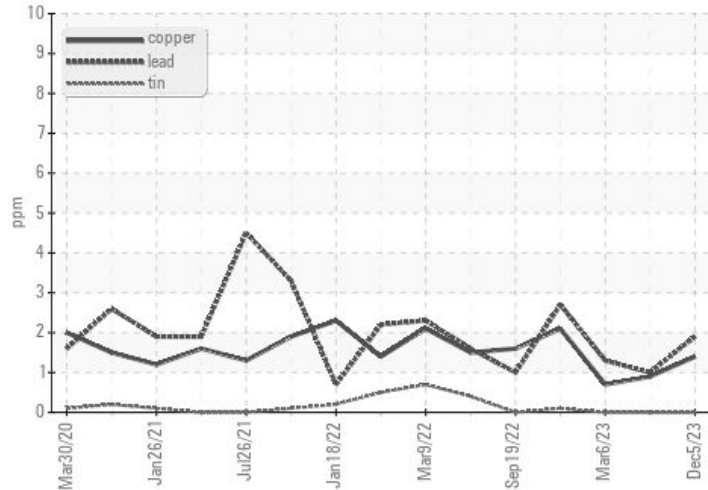


GRAPHS

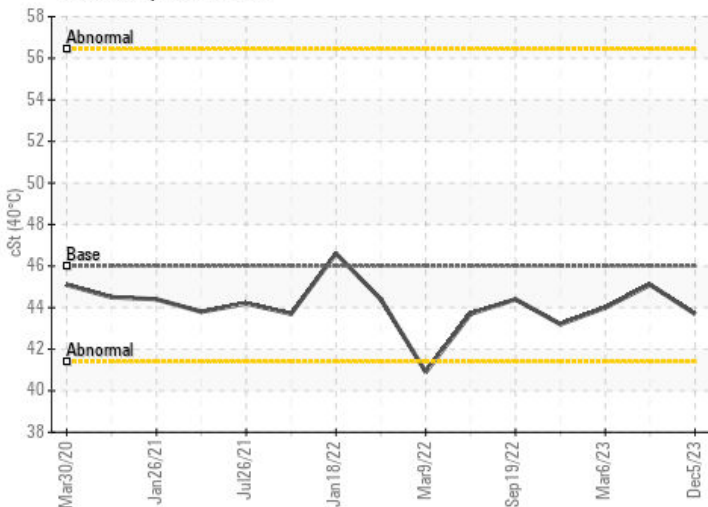
Ferrous Alloys



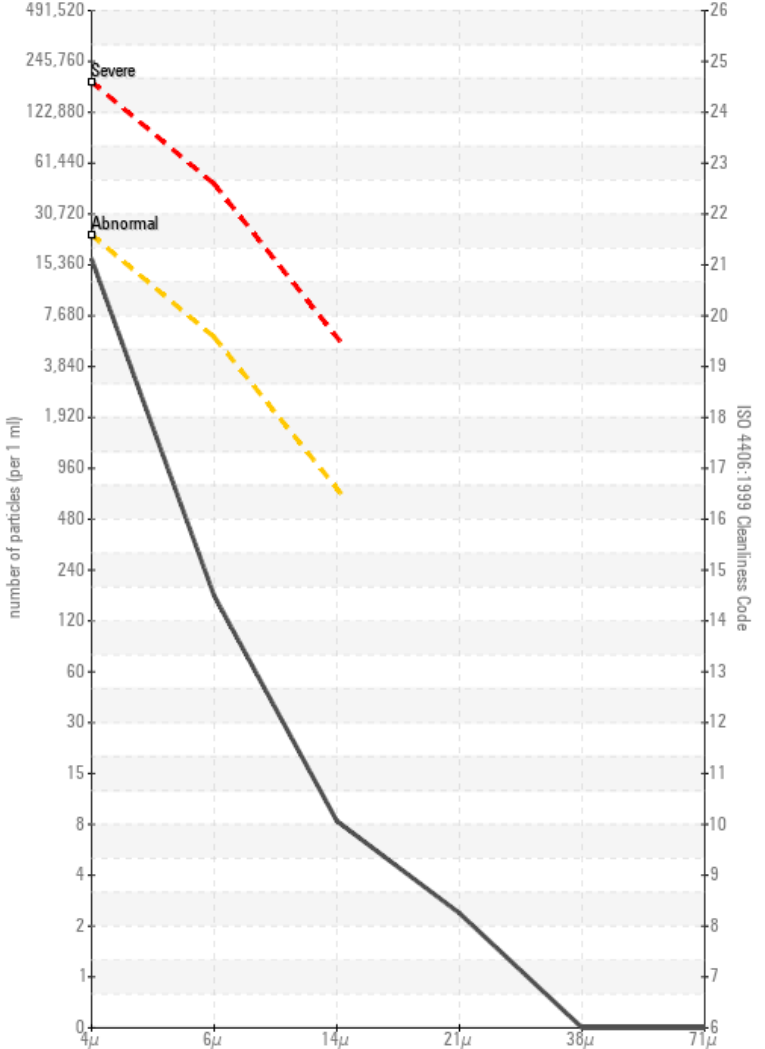
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

