

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-56018 - Transmission (Manual)

Sample No: LH06225432

Oil Type: TDTO FLUID SAE 10W



#### Sample Information

Sample Number	<b>LH06225432</b>	LH06112389	LH0158435	LH05836147
Sample Date	<b>30 Jun 2024</b>	06 Mar 2024	06 Dec 2023	27 Apr 2023
Machine Hours	<b>17000</b>	15997	9000	13020
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	N/A	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**VERSO CORP - QUINNESEC MILL**  
 W6791 US HWY 2  
 QUINNESEC, MI  
 US 49876  
 Contact: ERIC LARSON  
 eric.larson@versoco.com  
 T:  
 F:



#### Oil Condition

Visc @ 40°C	cSt	<b>46.1</b>	46.5	46.0	46.5
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>9</b>	7	8	8
Sodium	ppm	<b>6</b>	9	4	9
Potassium	ppm	<b>3</b>	2	2	0



#### Wear Metals

Iron	ppm	<b>8</b>	7	8	17
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>3</b>	1	2	2
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>&lt;1</b>	0	<1	0
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>&lt;1</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



#### Additives

Calcium	ppm	<b>4079</b>	3352	3626	3282
Magnesium	ppm	<b>10</b>	23	8	7
Zinc	ppm	<b>1657</b>	1440	1514	1268
Phosphorus	ppm	<b>1311</b>	1177	1281	1058
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>140</b>	116	134	117

#### Diagnosis

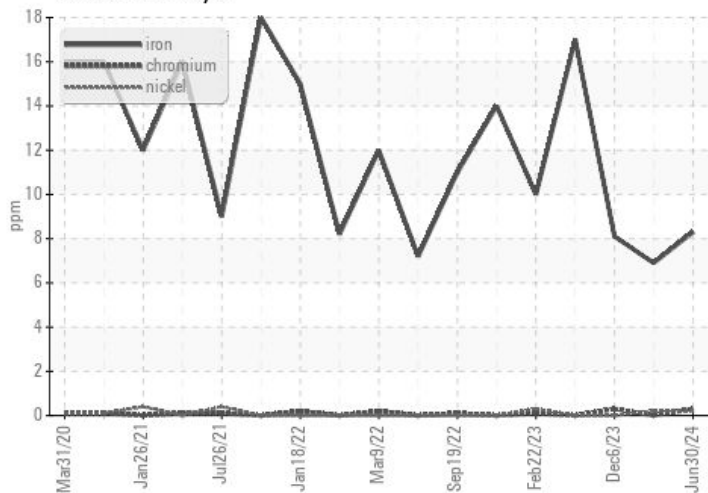
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VERQUI  
**Unique No:** 11103629  
**Signed:** Jonathan Hester  
**Report Date:** 03 Jul 2024

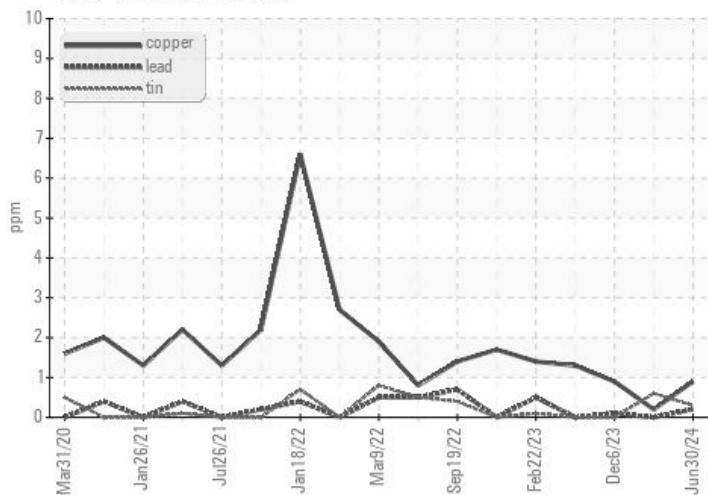


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

