LIEBHERR
CONSTRUCTION EQUIPMENT

# LIEBHERR L556 047561-1332 - Hydraulic System

**Sample No:** LH0254825

**Oil Type:** {unknown}


**AMERICAN STATE EQUIPMENT CO.**
2400 NORTH 14TH AVENUE
WAUSAU, WI
US 54401
Contact: CHRIS BARTNIK
cbartnik@amstate.com
T: (715)675-6900
F: (715)675-9748


## Sample Information

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **LH0254825** | LH0254824 | --- | --- |
| Sample Date | | **07 Jun 2024** | 24 Apr 2023 | --- | --- |
| Machine Hours | | **1833** | 0 | --- | --- |
| Oil Hours | | **0** | 0 | --- | --- |
| Oil Changed | | **N/A** | N/A | --- | --- |
| Sample Status | | **ATTENTION** | ABNORMAL | --- | --- |

## Oil Condition

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | **48.9** | 49.3 | --- | --- |
| Acid Number (AN) | mg KOH/g | **1.20** | 1.30 | --- | --- |

## Contamination

| | | | | | |
|---|---|---|---|---|---|
| Water | % | **NEG** | NEG | --- | --- |
| Particles >4µm | | **26681** | 47528 | --- | --- |
| Particles >6µm | | **4057** | 3662 | --- | --- |
| Particles >14µm | | **91** | 18 | --- | --- |
| ISO 4406:1999 (c) | | **22/19/14** | 23/19/11 | --- | --- |
| Silicon | ppm | **3** | 4 | --- | --- |
| Sodium | ppm | **0** | 2 | --- | --- |
| Potassium | ppm | **3** | 3 | --- | --- |

## Wear Metals

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **12** | 12 | --- | --- |
| Copper | ppm | **9** | 9 | --- | --- |
| Lead | ppm | **13** | 14 | --- | --- |
| Tin | ppm | **<1** | <1 | --- | --- |
| Aluminum | ppm | **2** | 0 | --- | --- |
| Chromium | ppm | **2** | 2 | --- | --- |
| Molybdenum | ppm | **<1** | 0 | --- | --- |
| Nickel | ppm | **<1** | <1 | --- | --- |
| Titanium | ppm | **<1** | 0 | --- | --- |
| Silver | ppm | **0** | 0 | --- | --- |
| Manganese | ppm | **0** | <1 | --- | --- |
| Vanadium | ppm | **0** | 0 | --- | --- |

## Additives

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **1265** | 1519 | --- | --- |
| Magnesium | ppm | **7** | 8 | --- | --- |
| Zinc | ppm | **666** | 847 | --- | --- |
| Phosphorus | ppm | **552** | 698 | --- | --- |
| Barium | ppm | **0** | 0 | --- | --- |
| Boron | ppm | **0** | 0 | --- | --- |

## Diagnosis

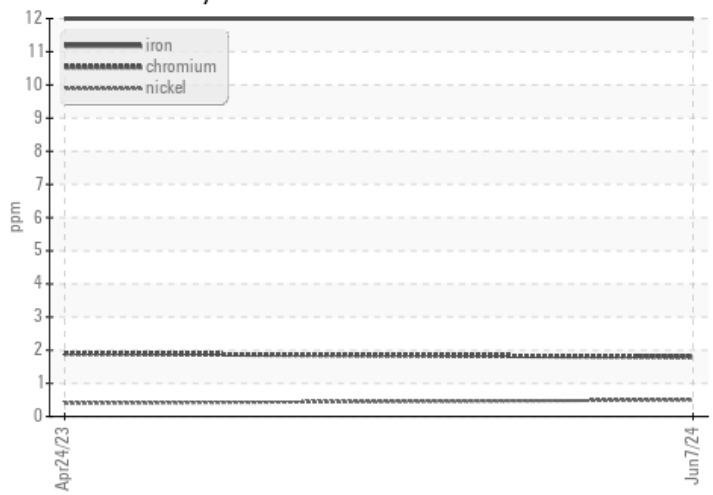
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** LEC0008
**Unique No:** 11076628
**Signed:** Doug Bogart
**Report Date:** 16 Jun 2024

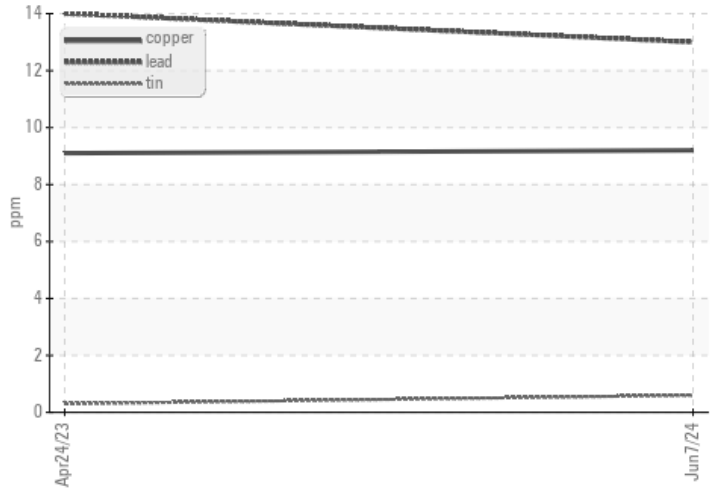
# LIEBHERR
## CONSTRUCTION EQUIPMENT


## Graphs

### Ferrous Alloys

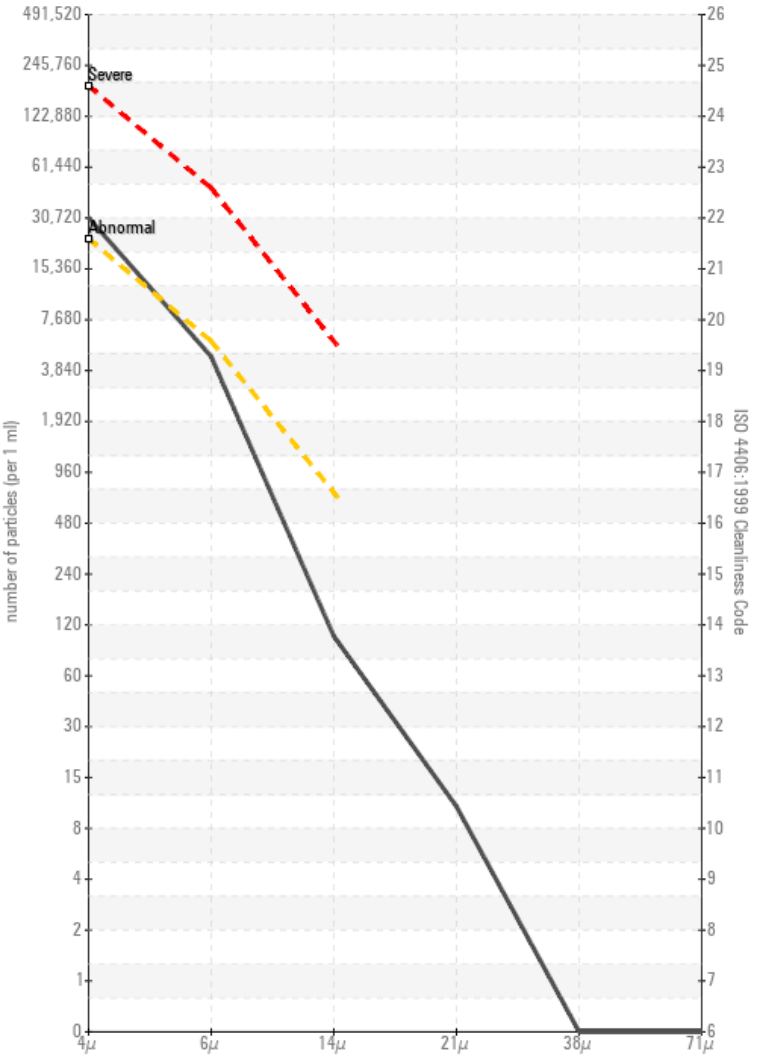



### Non-ferrous Metals




### Viscosity @ 40°C


### Particle Count




### Acid Number