LIEBHERR
CONSTRUCTION EQUIPMENT

# LIEBHERR L580 040770-1170 - Transmission (Auto)

**Sample No:** LH0264337

**Oil Type:** LIEBHERR HYDRAULIC-GEAR ATF


**LIEBHERR EQUIPMENT SOURCE**
8200 FAYETTEVILLE ROAD
RALEIGH, NC
US 27603
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## SAMPLE INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| Sample Number | | **LH0264337** | LH0174209 | LH0216939 | LH0204348 |
| Sample Date | | **08 Aug 2023** | 28 Apr 2023 | 24 Mar 2022 | 14 Sep 2021 |
| Machine Hours | | **9297** | 8817 | 7403 | 6606 |
| Oil Hours | | **500** | 500 | 500 | 1000 |
| Oil Changed | | **Not Changd** | Not Changd | Not Changd | Changed |
| Sample Status | | **ABNORMAL** | SEVERE | ABNORMAL | NORMAL |

## OIL CONDITION

| | | | | | |
|---|---|---|---|---|---|
| Visc @ 40°C | cSt | **30.9** | 32.0 | 29.6 | 28.8 |

## CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Silicon | ppm | **6** | 11 | 5 | 2 |
| Sodium | ppm | **2** | 5 | 0 | 4 |
| Potassium | ppm | **<1** | 0 | 1 | 0 |

## WEAR METALS

| | | | | | |
|---|---|---|---|---|---|
| Iron | ppm | **13** | 30 | 14 | 25 |
| Copper | ppm | **2** | 4 | 1 | <1 |
| Lead | ppm | **<1** | 0 | <1 | 0 |
| Tin | ppm | **0** | 0 | 0 | 0 |
| Aluminum | ppm | **61** | 114 | 40 | 2 |
| Chromium | ppm | **0** | 0 | 0 | <1 |
| Molybdenum | ppm | **2** | 0 | 0 | 0 |
| Nickel | ppm | **<1** | 0 | 0 | 0 |
| Titanium | ppm | **0** | <1 | 0 | 0 |
| Silver | ppm | **0** | 0 | 0 | 0 |
| Manganese | ppm | **<1** | 1 | <1 | <1 |
| Vanadium | ppm | **0** | 0 | 0 | 0 |

## ADDITIVES

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **802** | 790 | 861 | 793 |
| Magnesium | ppm | **3** | 0 | 0 | 2 |
| Zinc | ppm | **4** | 0 | 0 | 15 |
| Phosphorus | ppm | **160** | 177 | 165 | 147 |
| Barium | ppm | **2** | 0 | 0 | 0 |
| Boron | ppm | **244** | 238 | 225 | 225 |

## Diagnosis

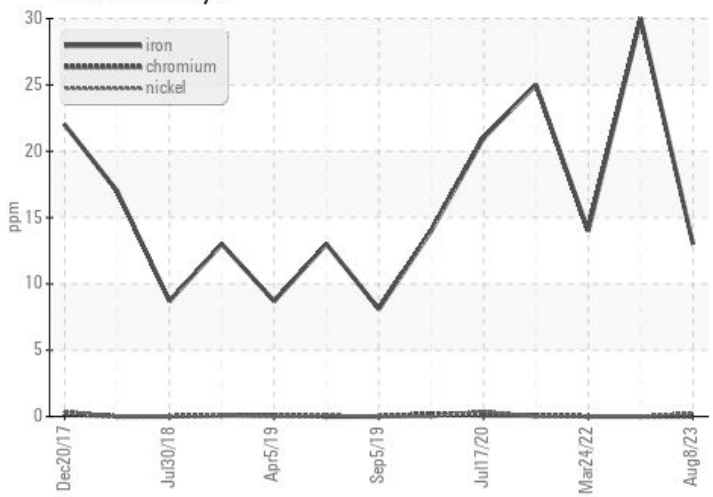
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.The aluminum level has decreased, but is still abnormal. Clutch wear is indicated. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

**Depot:** LIEBHERRNC
**Unique No:** 10602511
**Signed:** Don Baldridge
**Report Date:** 14 Aug 2023

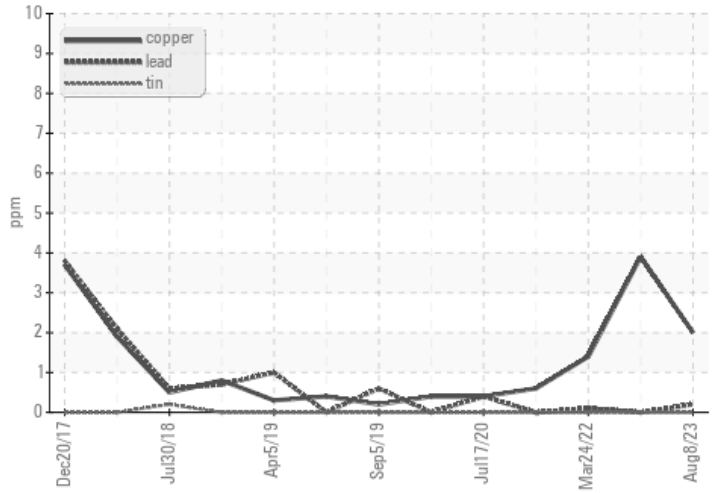
# LIEBHERR
## CONSTRUCTION EQUIPMENT


## GRAPHS

Ferrous Alloys




Non-ferrous Metals




Viscosity @ 40°C