

LIEBHERR

CONSTRUCTION EQUIPMENT



24999 - Hydraulic System

Sample No: LH0270452

Oil Type: NOT GIVEN

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE

BURLINGTON, ON

CA L7L 5Z8

Contact: Joseph Gillis

joseph.gillis@liebherr.com

T:

F: (905)319-6622

Diagnosis

We advise that you check for visible metal particles in the oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Light concentration of visible metal present. Cylinder wear is indicated. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORMATION

| | | | | | |
|---------------|--|-------------|-----|-----|-----|
| Sample Number | | LH0270452 | --- | --- | --- |
| Sample Date | | 23 Jul 2023 | --- | --- | --- |
| Machine Hours | | 5414 | --- | --- | --- |
| Oil Hours | | 0 | --- | --- | --- |
| Oil Changed | | Not Chngd | --- | --- | --- |
| Sample Status | | ABNORMAL | --- | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 44.5 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|-----|-----|-----|
| Particles >4µm | | ● 73649 | --- | --- | --- |
| Particles >6µm | | ● 16902 | --- | --- | --- |
| Particles >14µm | | ● 342 | --- | --- | --- |
| ISO 4406:1999 (c) | | 23/21/16 | --- | --- | --- |
| Silicon | ppm | ● 6 | --- | --- | --- |
| Sodium | ppm | ● 2 | --- | --- | --- |
| Potassium | ppm | ● <1 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ● 6 | --- | --- | --- |
| Copper | ppm | ● 6 | --- | --- | --- |
| Lead | ppm | ● <1 | --- | --- | --- |
| Tin | ppm | ● 0 | --- | --- | --- |
| Aluminum | ppm | ● 1 | --- | --- | --- |
| Chromium | ppm | ● 0 | --- | --- | --- |
| Molybdenum | ppm | 0 | --- | --- | --- |
| Nickel | ppm | ● 0 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

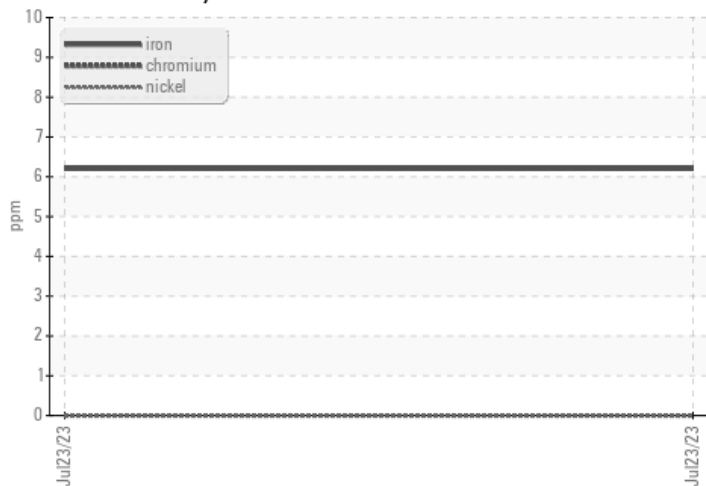
| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 1305 | --- | --- | --- |
| Magnesium | ppm | 4 | --- | --- | --- |
| Zinc | ppm | 692 | --- | --- | --- |
| Phosphorus | ppm | 643 | --- | --- | --- |
| Barium | ppm | 0 | --- | --- | --- |
| Boron | ppm | <1 | --- | --- | --- |

Depot: LIEMIS
 Unique No: 5616747
 Signed: Kevin Marson
 Report Date: 25 Jul 2023

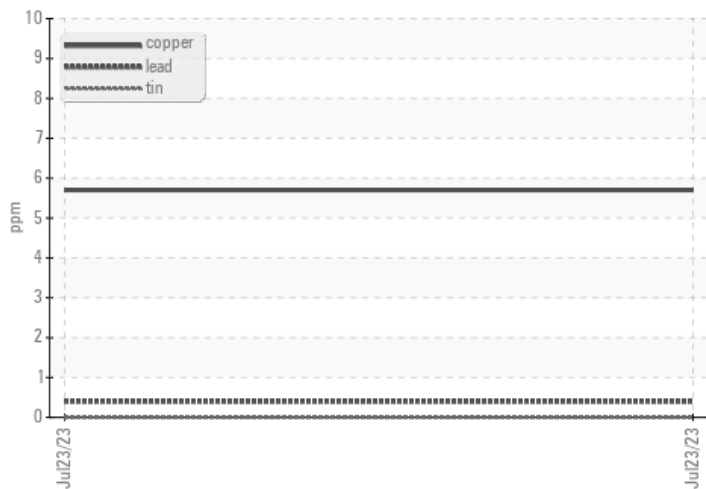


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)

