

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 74710 - Hydraulic System

Sample No: LH0270113  
 Oil Type: NOT GIVEN



**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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#### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0270113   | --- | --- | --- |
| Sample Date   | 25 Sep 2023 | --- | --- | --- |
| Machine Hours | 430         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | SEVERE      | --- | --- | --- |



#### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ● 46.9 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



#### CONTAMINATION

|                   |     |          |     |     |     |
|-------------------|-----|----------|-----|-----|-----|
| Particles >4µm    |     | ● 108603 | --- | --- | --- |
| Particles >6µm    |     | ● 41419  | --- | --- | --- |
| Particles >14µm   |     | ● 1176   | --- | --- | --- |
| ISO 4406:1999 (c) |     | 24/23/17 | --- | --- | --- |
| Silicon           | ppm | ● <1     | --- | --- | --- |
| Sodium            | ppm | ● <1     | --- | --- | --- |
| Potassium         | ppm | ● 0      | --- | --- | --- |



#### WEAR METALS

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



#### ADDITIVES

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Calcium    | ppm | ● 103 | --- | --- | --- |
| Magnesium  | ppm | ● <1  | --- | --- | --- |
| Zinc       | ppm | ● 853 | --- | --- | --- |
| Phosphorus | ppm | ● 662 | --- | --- | --- |
| Barium     | ppm | ● <1  | --- | --- | --- |
| Boron      | ppm | ● <1  | --- | --- | --- |

#### Diagnosis

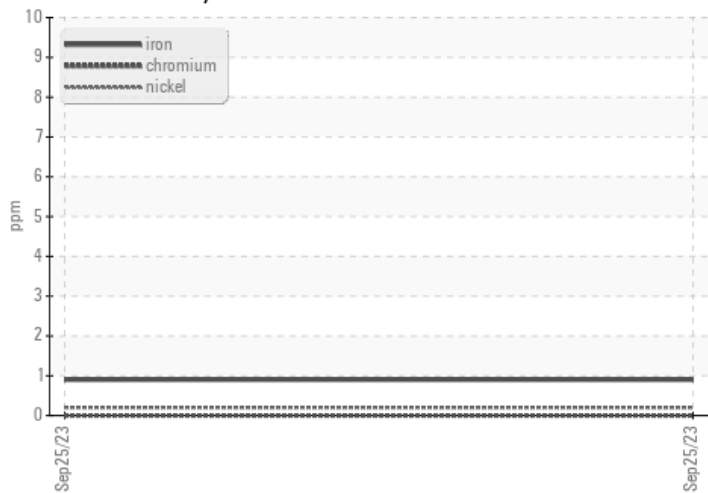
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: LIEMIS  
 Unique No: 5646322  
 Signed: Wes Davis  
 Report Date: 27 Sep 2023

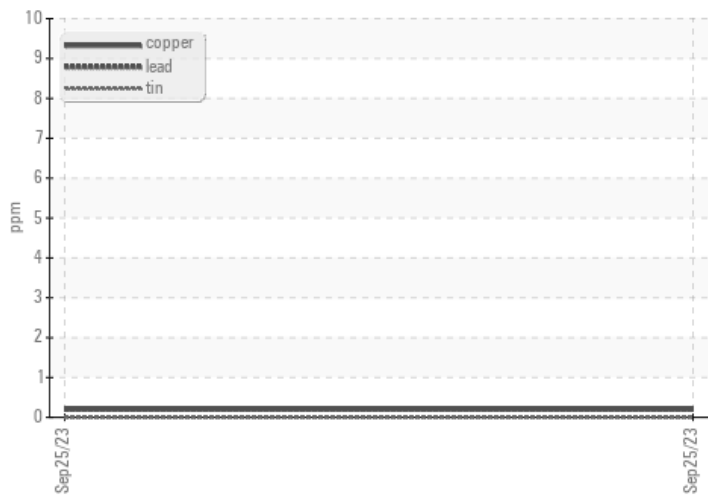


### GRAPHS

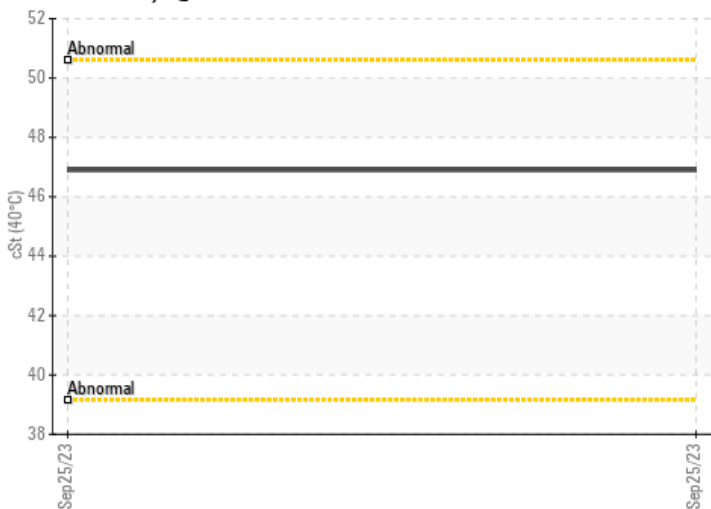
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

