# LIEBHERR
## CONSTRUCTION EQUIPMENT

# [(341435)] LIEBHERR LH50M 128733-1216 - Hydraulic System

**Sample No:** LH0277774

**Oil Type:** NOT GIVEN


**COMBINED METAL INDUSTRIES**
454 DOBBIE DRIVE
CAMBRIDGE, ON
CA N1T 1S7
Contact: Service Manager

T:
F:


## INFORMATION SUR L'éCHANTILLON

| | | | | | |
|---|---|---|---|---|---|
| Numéro d'échant. | | **LH0277774** | LH0274633 | LH0256934 | LH0256833 |
| Date d'échant. | | **20 Nov 2023** | 16 Aug 2023 | 11 Jun 2023 | 30 Mar 2023 |
| Heures de la Machine | | **8180** | 7832 | 14253 | 6168 |
| Heures de l'huile | | **0** | 0 | 0 | 0 |
| Huile changée | | **Not Changd** | Changed | Not Changd | Not Changd |
| Statut de l'echant. | | **SEVERE** | SEVERE | SEVERE | SEVERE |

## ÉTAT D'HUILE

| | | | | | |
|---|---|---|---|---|---|
| Visc 40°C | cSt | **41.4** | 40.9 | 41.2 | 41.7 |

## CONTAMINATION

| | | | | | |
|---|---|---|---|---|---|
| Eau | % | **NEG** | NEG | NEG | NEG |
| Particules >4µ | | **1666** | 65082 | 3986 | 2058 |
| Particules >6µ | | **448** | 19821 | 1081 | 482 |
| Particules >14µ | | **23** | 851 | 86 | 25 |
| ISO 4406:1999 (c) | | **18/16/12** | 23/21/17 | 19/17/14 | 18/16/12 |
| Silicium | ppm | **2** | 2 | 2 | 2 |
| Sodium | ppm | **2** | 2 | 1 | 2 |
| Potassium | ppm | **0** | <1 | <1 | 1 |

## MéTAUX D'USURE

| | | | | | |
|---|---|---|---|---|---|
| PQ | | **0** | 9 | 6 | 1 |
| Fer | ppm | **123** | 126 | 116 | 103 |
| Cuivre | ppm | **4** | 4 | 4 | 3 |
| Plomb | ppm | **<1** | <1 | <1 | <1 |
| Étain | ppm | **0** | 0 | 0 | <1 |
| Aluminium | ppm | **<1** | 1 | <1 | <1 |
| Chrome | ppm | **1** | 1 | 1 | <1 |
| Molybdène | ppm | **0** | 0 | 0 | 0 |
| Nickel | ppm | **0** | 0 | 0 | 0 |
| Titane | ppm | **0** | 0 | 0 | 0 |
| Argent | ppm | **<1** | 4 | 0 | 0 |
| Manganèse | ppm | **2** | 2 | 2 | 2 |
| Vanadium | ppm | **0** | 0 | <1 | <1 |

## ADDITIFS

| | | | | | |
|---|---|---|---|---|---|
| Calcium | ppm | **434** | 480 | 536 | 544 |
| Magnésium | ppm | **2** | 3 | 2 | 2 |
| Zinc | ppm | **806** | 797 | 774 | 780 |
| Phosphore | ppm | **634** | 674 | 699 | 690 |
| Baryum | ppm | **0** | 0 | 0 | 0 |
| Bore | ppm | **<1** | <1 | <1 | <1 |

## Diagnostic

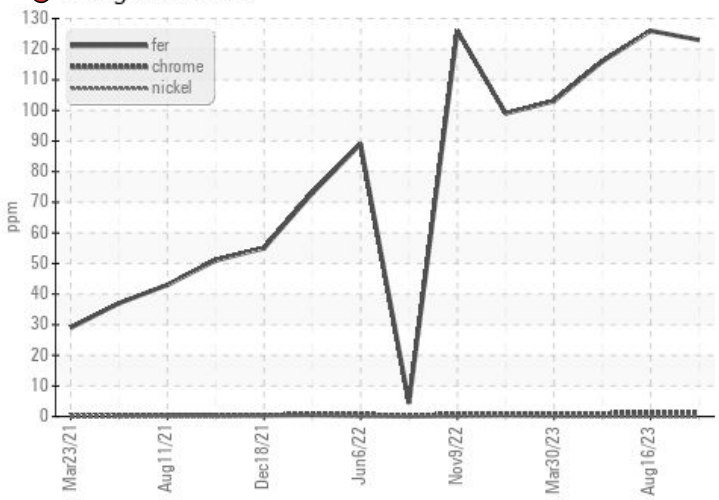
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** COM454CAM
**Unique No:** 5682994
**Signed:** Kevin Marson
**Report Date:** 22 Nov 2023

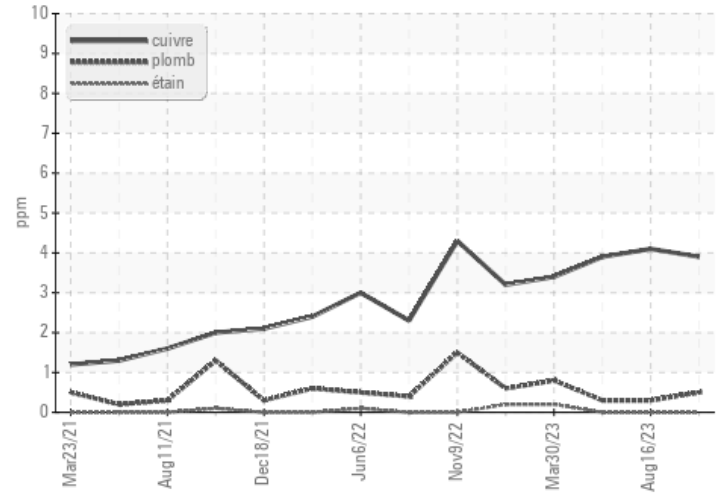
# LIEBHERR
## CONSTRUCTION EQUIPMENT


## GRAPHS

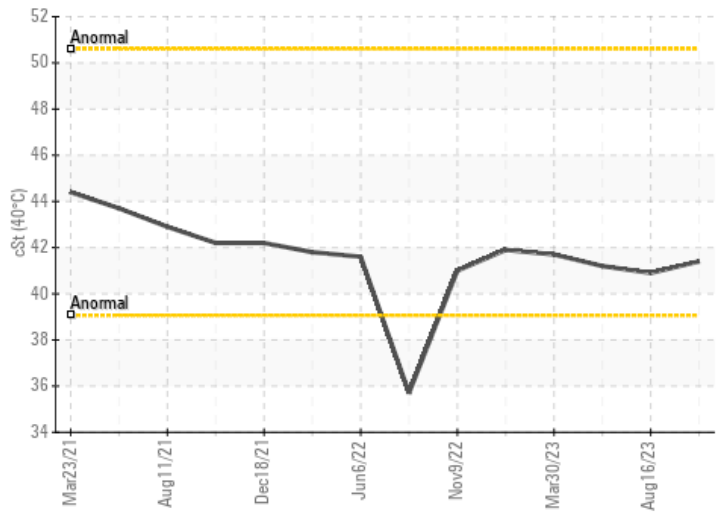
Alliages ferreux




Métaux non-ferreux




Viscosité 40°C




Comptage de particules