

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 102786-1215 - Hydraulic System

Sample No: LH0277390

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0277390   | LH0271488   | LH0243012   | LH0235567   |
| Sample Date   | 04 Jan 2024 | 08 Aug 2023 | 18 Jan 2023 | 10 Aug 2022 |
| Machine Hours | 9177        | 8449        | 7092        | 6498        |
| Oil Hours     | 0           | 0           | 0           | 0           |
| Oil Changed   | N/A         | Changed     | Changed     | Not Changd  |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | ATTENTION   |

REVALORISATION TPOL INC.

889 RUE DES HERONS

LEVIS, QC

CA G6Z 3L5

Contact: Steeve Desrochers

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#### OIL CONDITION

|             |     |      |      |      |      |
|-------------|-----|------|------|------|------|
| Visc @ 40°C | cSt | 37.0 | 35.8 | 37.2 | 37.8 |
|-------------|-----|------|------|------|------|



#### CONTAMINATION

|                   |     |          |          |          |          |
|-------------------|-----|----------|----------|----------|----------|
| Water             | %   | NEG      | NEG      | 0.010    | 0.026    |
| Particles >4µm    |     | 707      | 1296     | 5726     | 16699    |
| Particles >6µm    |     | 140      | 290      | 499      | 5281     |
| Particles >14µm   |     | 15       | 23       | 17       | 285      |
| ISO 4406:1999 (c) |     | 17/14/11 | 17/15/12 | 20/16/11 | 21/20/15 |
| Silicon           | ppm | 1        | 2        | 1        | 1        |
| Sodium            | ppm | <1       | <1       | 1        | 1        |
| Potassium         | ppm | <1       | <1       | <1       | <1       |

#### Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable. La viscosité de l'échantillon se situe dans la portée de l'ISO 32; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.



#### WEAR METALS

|            |     |    |    |    |    |
|------------|-----|----|----|----|----|
| Iron       | ppm | 23 | 21 | 17 | 16 |
| Copper     | ppm | 2  | 2  | 2  | 2  |
| Lead       | ppm | <1 | <1 | <1 | <1 |
| Tin        | ppm | 0  | 0  | 0  | 0  |
| Aluminum   | ppm | <1 | <1 | <1 | <1 |
| Chromium   | ppm | 2  | 2  | 3  | 2  |
| Molybdenum | ppm | 0  | <1 | <1 | <1 |
| Nickel     | ppm | <1 | <1 | 0  | 0  |
| Titanium   | ppm | 0  | 0  | 0  | 0  |
| Silver     | ppm | 1  | 0  | 0  | 0  |
| Manganese  | ppm | 0  | <1 | <1 | <1 |
| Vanadium   | ppm | 0  | 0  | 0  | 0  |



#### ADDITIVES

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 267 | 276 | 339 | 349 |
| Magnesium  | ppm | 3   | 3   | 4   | 4   |
| Zinc       | ppm | 566 | 570 | 603 | 612 |
| Phosphorus | ppm | 458 | 498 | 516 | 539 |
| Barium     | ppm | 0   | 0   | 0   | 0   |
| Boron      | ppm | <1  | <1  | <1  | <1  |

Depot: REVLEV

Unique No: 5707885

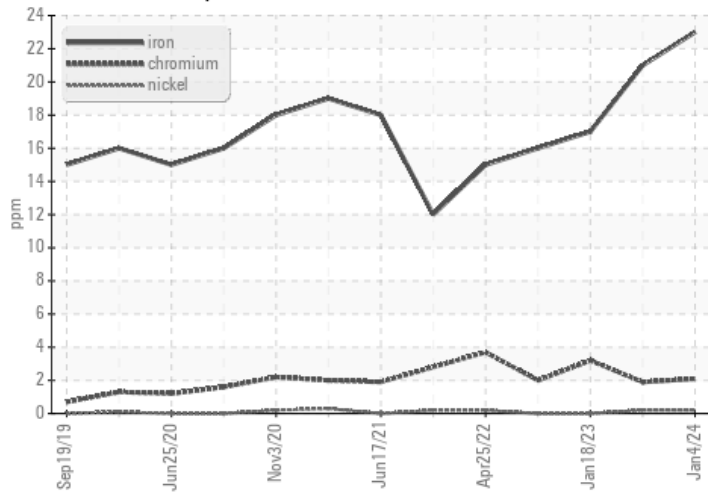
Signed: Kevin Marson

Report Date: 08 Jan 2024

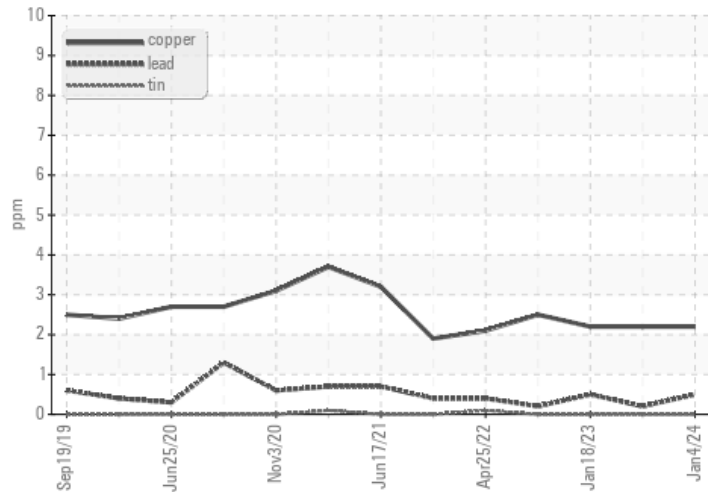


### GRAPHS

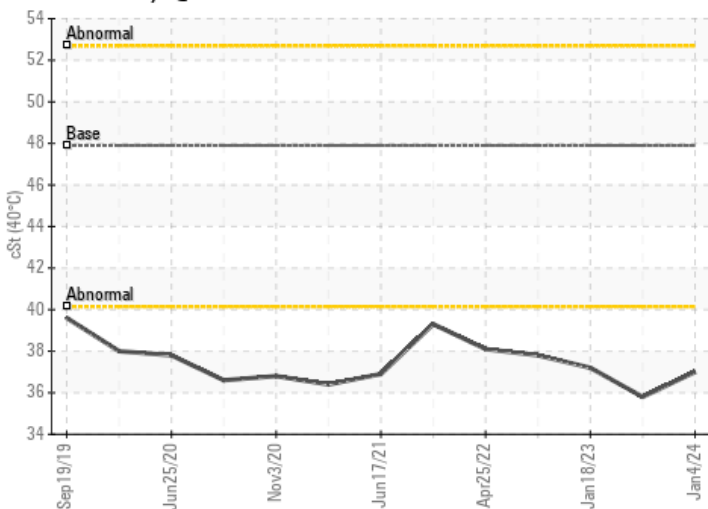
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

