



## [EARTH BORING [591174]] 117032 - Hydraulic System

Sample No: LH0281550

Oil Type: PETRO CANADA HYDREX AW 46

# Sample INFORMATIONSample NumberLH0281550------Sample Date28 Dec 2023------Machine Hours999---------Oil Hours0---------Oil ChangedN/A---------Sample StatusNORMAL---------

**OIL CONDITION** 

Visc @ 40°C

- 1

cSt

37.2

| Water           | %   | NEG      |  |  |  |  |  |  |
|-----------------|-----|----------|--|--|--|--|--|--|
| Particles >4µm  |     | 0 2575   |  |  |  |  |  |  |
| Particles >6µm  |     | 0 274    |  |  |  |  |  |  |
| Particles >14µm | i i | 0 12     |  |  |  |  |  |  |
| ISO 4406:1999 ( | (C) | 19/15/11 |  |  |  |  |  |  |
| Silicon         | ppm | 0        |  |  |  |  |  |  |
| Sodium          | ppm | 0        |  |  |  |  |  |  |
| Potassium       | ppm | ◯ <1     |  |  |  |  |  |  |
|                 |     |          |  |  |  |  |  |  |

#### $\bigcirc$ WEAR METALS Iron ppm ◯ <1 Copper ppm 01 Lead ○ <1 ppm Tin ppm 0 Aluminum ○ <1 ppm Chromium 0 ppm Molybdenum 0 ppm Nickel 0 ppm Titanium 0 ppm Silver ppm 0 Manganese 0 ppm Vanadium 0 ppm

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| Calcium    | ppm | 0 61        |  |  |  |  |  |  |  |  |
|------------|-----|-------------|--|--|--|--|--|--|--|--|
| Magnesium  | ppm | <b>○</b> <1 |  |  |  |  |  |  |  |  |
| Zinc       | ppm | 0 331       |  |  |  |  |  |  |  |  |
| Phosphorus | ppm | 0 291       |  |  |  |  |  |  |  |  |
| Barium     | ppm | 0 (         |  |  |  |  |  |  |  |  |
| Boron      | ppm | 0 🔘         |  |  |  |  |  |  |  |  |

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Joseph Gillis joseph.gillis@liebherr.com T: F: (905)319-6622

### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

 Depot:
 LIEMIS

 Unique No:
 5707337

 Signed:
 Kevin Marson

 Report Date:
 04 Jan 2024

Report Id: LIEMIS [WCAMIS] 02606251 (Generated: 01/04/2024 08:14:06) Rev: 1

Contact/Location: Joseph Gillis - LIEMIS

# **LIEBHERR** CONSTRUCTION EQUIPMENT



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