

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(354194)] LIEBHERR LH40C132159-1527 - Left Final Drive

Sample No: LH0209415

Oil Type: 49 NORTH SS 75W90



#### SAMPLE INFORMATION

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0209415   | LH          | LH0209406   | LH0209397   |
| Sample Date   | 19 Jul 2023 | 27 Jan 2023 | 12 Jul 2022 | 14 Jan 2022 |
| Machine Hours | 1000        | 1000        | 1000        | 1000        |
| Oil Hours     | 0           | 0           | 0           | 0           |
| Oil Changed   | Changed     | N/A         | N/A         | Changed     |
| Sample Status | NORMAL      | NORMAL      | NORMAL      | NORMAL      |

**National Salvage Ltd.**  
 206-33 Street N  
 Lethbridge, AB  
 CA T1H 3Z5  
 Contact: Service Manager



#### OIL CONDITION

|             |     |      |      |      |     |
|-------------|-----|------|------|------|-----|
| Visc @ 40°C | cSt | 88.2 | 90.3 | 94.3 | 198 |
|-------------|-----|------|------|------|-----|

T:  
F:



#### CONTAMINATION

|           |     |   |   |   |   |
|-----------|-----|---|---|---|---|
| Silicon   | ppm | 4 | 7 | 7 | 7 |
| Sodium    | ppm | 1 | 1 | 2 | 5 |
| Potassium | ppm | 1 | 1 | 2 | 3 |

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

|            |     |    |    |    |     |
|------------|-----|----|----|----|-----|
| Iron       | ppm | 23 | 31 | 38 | 140 |
| Copper     | ppm | <1 | <1 | <1 | <1  |
| Lead       | ppm | 0  | 0  | 0  | <1  |
| Tin        | ppm | 0  | 0  | 0  | <1  |
| Aluminum   | ppm | <1 | 1  | 1  | 1   |
| Chromium   | ppm | <1 | <1 | 1  | 4   |
| Molybdenum | ppm | 0  | 0  | 0  | 0   |
| Nickel     | ppm | <1 | <1 | <1 | 1   |
| Titanium   | ppm | 0  | <1 | <1 | <1  |
| Silver     | ppm | <1 | 0  | 0  | 0   |
| Manganese  | ppm | <1 | <1 | <1 | 3   |
| Vanadium   | ppm | 0  | 0  | 0  | 0   |



#### ADDITIVES

|            |     |      |      |     |      |
|------------|-----|------|------|-----|------|
| Calcium    | ppm | 16   | 6    | 7   | 21   |
| Magnesium  | ppm | 1    | 1    | <1  | <1   |
| Zinc       | ppm | 13   | 9    | 9   | 21   |
| Phosphorus | ppm | 1094 | 1141 | 953 | 1253 |
| Barium     | ppm | <1   | 2    | 3   | 17   |
| Boron      | ppm | 212  | 227  | 85  | 5    |

**Depot:** NATLET  
**Unique No:** 5616555  
**Signed:** Wes Davis  
**Report Date:** 21 Jul 2023



### GRAPHS

