## LIEBHERR

### **CONSTRUCTION EQUIPMENT**

### LIEBHERR A934C 064064-1007 - Pump Drive

Sample No: LH0268381

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90

| _             |           |             |             |             |             |
|---------------|-----------|-------------|-------------|-------------|-------------|
| Sam           | ple Info  | rmation     |             |             |             |
| Sample Number |           | LH0268381   | LH0258825   | LH0243333   | LH0254761   |
| Sample Date   |           | 27 Jun 2024 | 20 Feb 2024 | 02 Oct 2023 | 23 Jun 2023 |
| Machine Hours |           | 26934       | 26421       | 25481       | 24973       |
| Oil Hours     |           | 0           | 0           | 0           | 0           |
| Oil Changed   |           | Changed     | Changed     | Changed     | Changed     |
| Sample Status |           | ABNORMAL    | NORMAL      | NORMAL      | NORMAL      |
| Oil C         | ondition  | 1           |             |             |             |
| Visc @ 40°C   | cSt       | <b>119</b>  | O 119       | O 121       | O 125       |
| Conf          | aminati   | on          |             |             |             |
| Water         | %         | NEG         | NEG         | NEG         | NEG         |
| Silicon       | ppm       | <b>2</b>    | <b>4</b>    | O 2         | O 2         |
| Sodium        | ppm       | <b>2</b>    | O <1        | <1          | <b>0</b>    |
| Potassium     | ppm       | <b>3</b>    | <b>4</b>    | <b>3</b>    | <b>3</b>    |
|               | ır Metal: |             |             |             |             |
| lron          | ppm       | <b>37</b>   | O 23        | O 11        | <b>9</b>    |
| Copper        | ppm       | 0 <1        | 0 <1        | O <1        | O <1        |
| Lead<br>      | ppm       | 0 <1        | 01          | 0 1         | 0 1         |
| Γin<br>•••••• | ppm       | 0 0         | 0 <1        | 0           | 0           |
| Aluminum      | ppm       | 0 <1        | 0 <1        | 0           | 0 <1        |
| Chromium      | ppm       | <b>0</b> 0  | 0 <1        | 0 0         | 0 0         |
| Molybdenum    | ppm       | 0           | 01          | 0 <1        | 0 <1        |
| Nickel        | ppm       | 0 <1        | 0 <1        | 0           | 0 0         |
| Titanium      | ppm       | <1          | 1           | 1           | <1          |
| Silver        | ppm       | 0           | 0           | 0           | 0           |
| Manganese     | ppm       | 0 <1        | 01          | 0 <1        | 0 <1        |
| /anadium      | ppm       | 0           | <1          | 0           | 0           |
| Add           | itives    |             |             |             |             |
| Calcium       | ppm       | <b>54</b>   | <b>50</b>   | <b>5</b> 5  | <b>49</b>   |
| Magnesium     | ppm       | <b>6</b>    | <b>5</b>    | <b>17</b>   | O 14        |
| Zinc          | ppm       | <b>37</b>   | <b>40</b>   | 25          | <b>26</b>   |
| DI I          |           | 0 000       | ==0         | 0 101=      | 0           |

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#### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

Depot:LEC0008Unique No:11126019Signed:Don BaldridgeReport Date:17 Jul 2024

986

0

 $\bigcirc$  0

Phosphorus

Barium

Boron

ppm

ppm

ppm

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#### **Graphs**

