

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C063551- Swing Drive

Sample No: LH0260528

Oil Type: PETRO CANADA TRAXON 80W90



**ABC RECYCLING**  
 750C JACKSON RD  
 NANAIMO, BC  
 CA V9X 1J2  
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#### SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>LH0260528</b>   | LH0224861   | LH0224858   | LH0226646   |
| Sample Date   | <b>30 Jun 2023</b> | 20 Mar 2023 | 18 Nov 2022 | 09 Aug 2022 |
| Machine Hours | <b>17789</b>       | 17189       | 16666       | 16175       |
| Oil Hours     | <b>600</b>         | 523         | 491         | 1222        |
| Oil Changed   | <b>Changed</b>     | Changed     | Changed     | Changed     |
| Sample Status | <b>NORMAL</b>      | NORMAL      | NORMAL      | NORMAL      |



#### OIL CONDITION

|             |     |            |     |     |     |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | <b>134</b> | 133 | 135 | 137 |
|-------------|-----|------------|-----|-----|-----|



#### CONTAMINATION

|           |     |              |    |    |    |
|-----------|-----|--------------|----|----|----|
| Silicon   | ppm | <b>5</b>     | 4  | 5  | 8  |
| Sodium    | ppm | <b>&lt;1</b> | <1 | 1  | 1  |
| Potassium | ppm | <b>&lt;1</b> | <1 | <1 | <1 |



#### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>184</b>   | 144 | 163 | 213 |
| Copper     | ppm | <b>15</b>    | 13  | 13  | 22  |
| Lead       | ppm | <b>0</b>     | <1  | <1  | <1  |
| Tin        | ppm | <b>&lt;1</b> | <1  | <1  | <1  |
| Aluminum   | ppm | <b>0</b>     | 0   | 0   | <1  |
| Chromium   | ppm | <b>2</b>     | 1   | 1   | 2   |
| Molybdenum | ppm | <b>&lt;1</b> | <1  | <1  | 1   |
| Nickel     | ppm | <b>&lt;1</b> | <1  | <1  | <1  |
| Titanium   | ppm | <b>0</b>     | 0   | 0   | 0   |
| Silver     | ppm | <b>0</b>     | 0   | 0   | 0   |
| Manganese  | ppm | <b>1</b>     | 1   | 1   | 2   |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | 0   |



#### ADDITIVES

|            |     |             |      |      |     |
|------------|-----|-------------|------|------|-----|
| Calcium    | ppm | <b>54</b>   | 65   | 30   | 66  |
| Magnesium  | ppm | <b>6</b>    | 6    | 8    | 16  |
| Zinc       | ppm | <b>32</b>   | 34   | 20   | 37  |
| Phosphorus | ppm | <b>1036</b> | 1064 | 1062 | 975 |
| Barium     | ppm | <b>1</b>    | <1   | 1    | 4   |
| Boron      | ppm | <b>251</b>  | 242  | 252  | 251 |

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

**Depot:** ABCNAN  
**Unique No:** 5605644  
**Signed:** Wes Davis  
**Report Date:** 07 Jul 2023

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### GRAPHS

