

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L566 036511-1168 - Splitter Box

Sample No: LH0278890

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0278890   | LH0257429   | LH0239191   | LH          |
| Sample Date   | 21 Jan 2024 | 14 Sep 2023 | 07 Nov 2022 | 31 Oct 2020 |
| Machine Hours | 14008       | 13330       | 11757       | 9931        |
| Oil Hours     | 0           | 0           | 0           | 0           |
| Oil Changed   | Changed     | Changed     | Changed     | Changed     |
| Sample Status | ABNORMAL    | ABNORMAL    | NORMAL      | NORMAL      |

**Summit Aggregates**  
 2686 Greenfield Blvd.  
 Ayr, ON  
 CA N0B 1E0  
 Contact: Greg .  
 greg@summitagg.com  
 T: (226)791-0161  
 F:



#### OIL CONDITION

|             |     |      |      |      |      |
|-------------|-----|------|------|------|------|
| Visc @ 40°C | cSt | 61.9 | 90.9 | 80.0 | 91.1 |
|-------------|-----|------|------|------|------|



#### CONTAMINATION

|           |     |       |     |     |     |
|-----------|-----|-------|-----|-----|-----|
| Water     | %   | 0.022 | NEG | NEG | NEG |
| Silicon   | ppm | 4     | 6   | 3   | 2   |
| Sodium    | ppm | 2     | 2   | <1  | <1  |
| Potassium | ppm | 4     | 1   | 0   | <1  |



#### WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| PQ         |     | --- | 68  | --- | --- |
| Iron       | ppm | 13  | 278 | 10  | 6   |
| Copper     | ppm | 5   | 2   | 5   | 5   |
| Lead       | ppm | 1   | <1  | <1  | <1  |
| Tin        | ppm | 0   | 0   | 0   | 0   |
| Aluminum   | ppm | 1   | <1  | <1  | <1  |
| Chromium   | ppm | 0   | 1   | 0   | 0   |
| Molybdenum | ppm | 1   | 27  | 1   | <1  |
| Nickel     | ppm | <1  | <1  | 0   | 0   |
| Titanium   | ppm | 0   | 0   | 0   | 0   |
| Silver     | ppm | 0   | 0   | 0   | <1  |
| Manganese  | ppm | 0   | 2   | <1  | <1  |
| Vanadium   | ppm | 0   | 0   | 0   | 0   |



#### ADDITIVES

|            |     |     |      |      |      |
|------------|-----|-----|------|------|------|
| Calcium    | ppm | 601 | 13   | 371  | 16   |
| Magnesium  | ppm | 6   | 3    | 4    | 2    |
| Zinc       | ppm | 356 | 16   | 195  | 22   |
| Phosphorus | ppm | 982 | 3009 | 1191 | 1192 |
| Barium     | ppm | 0   | 0    | 0    | 0    |
| Boron      | ppm | 161 | 270  | 231  | 300  |

#### 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. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: SUMAYR  
 Unique No: 5711456  
 Signed: Kevin Marson  
 Report Date: 23 Jan 2024



### GRAPHS

