



# OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |



Machine Id  
**CASE 5130 5130**  
Component  
**Diesel Engine**  
Fluid  
**SHELL ROTELLA T4 15W40 (14 LTR)**

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0900942</b>   | WC0740324   | WC0680730   |
| Sample Date    |     | Client Info |           | <b>08 Mar 2024</b> | 13 Apr 2023 | 16 Apr 2022 |
| Machine Age    | hrs | Client Info |           | <b>6756</b>        | 6597        | 6456        |
| Oil Age        | hrs | Client Info |           | <b>160</b>         | 141         | 182         |
| Filter Age     | hrs | Client Info |           | <b>160</b>         | 141         | 182         |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|          |     |               |      |              |    |    |
|----------|-----|---------------|------|--------------|----|----|
| Iron     | ppm | ASTM D5185(m) | >90  | <b>6</b>     | 5  | 5  |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | <1 | <1 |
| Nickel   | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | <1 |
| Titanium | ppm | ASTM D5185(m) | >2   | <b>0</b>     | <1 | 0  |
| Silver   | ppm | ASTM D5185(m) | >2   | <b>0</b>     | 0  | 0  |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>1</b>     | 1  | 1  |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | 0  | 0  |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>&lt;1</b> | <1 | <1 |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>0</b>     | 0  | 0  |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

## CONTAMINATION

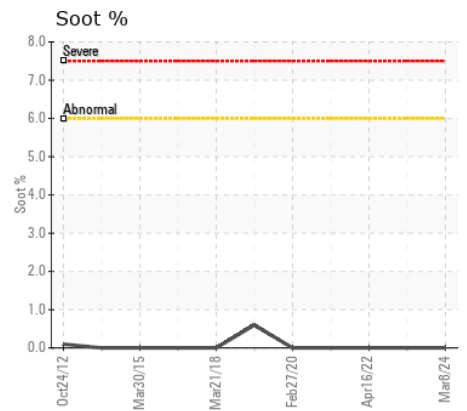
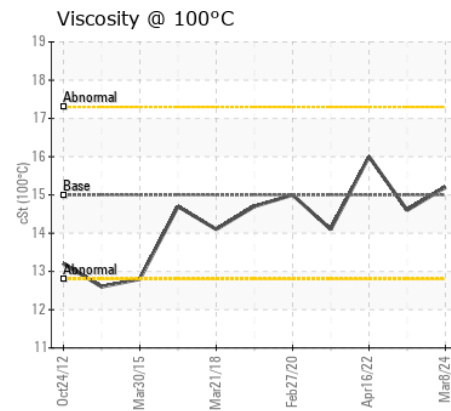
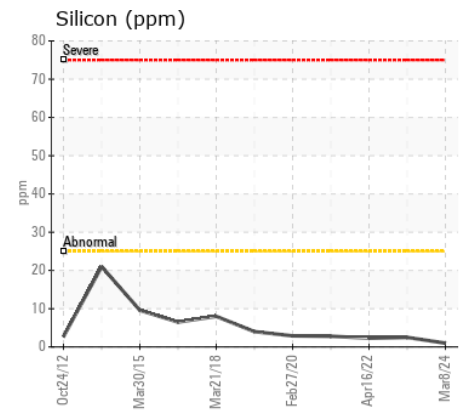
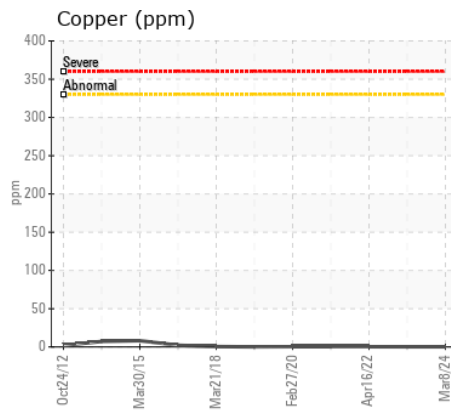
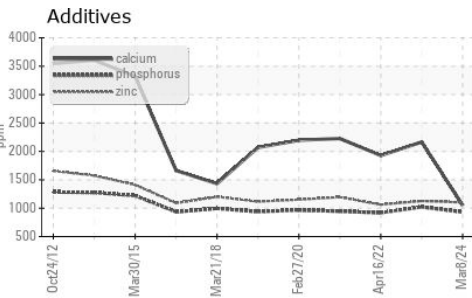
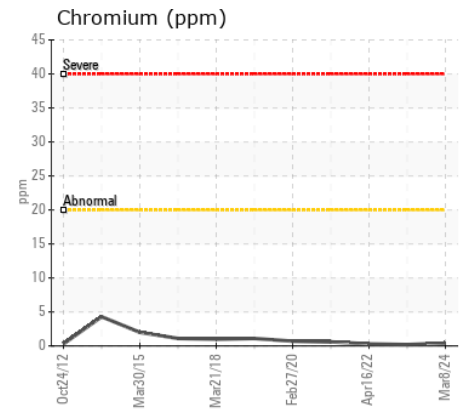
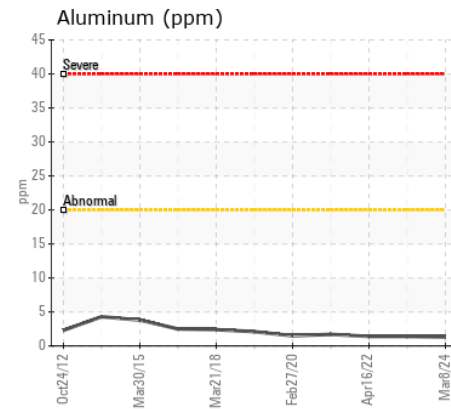
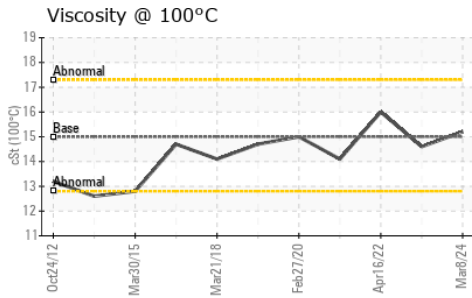
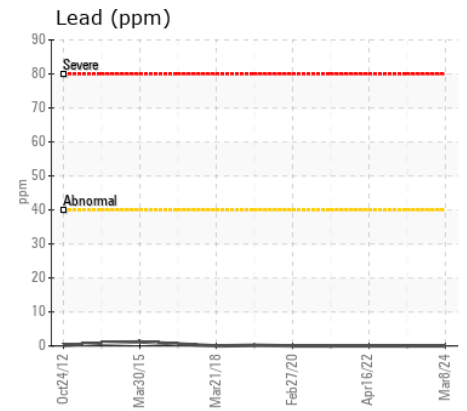
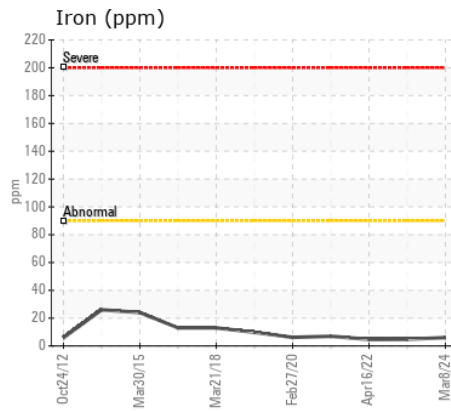
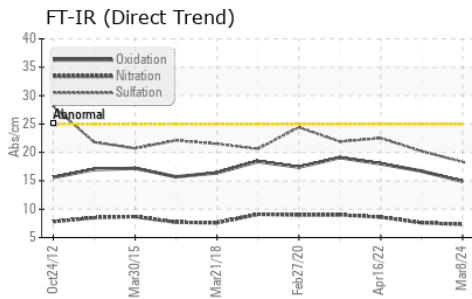
There is no indication of any contamination in the oil.

|                  |          |               |      |                |      |      |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>1</b>       | 2    | 2    |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>&lt;1</b>   | 7    | 6    |
| Fuel             |          | WC Method     | >3.0 | <b>&lt;1.0</b> | <1.0 | <1.0 |
| Water            |          | WC Method     | >0.2 | <b>NEG</b>     | NEG  | NEG  |
| Glycol           |          | WC Method     |      | <b>NEG</b>     | 0.0  | 0.0  |
| Soot %           | %        | ASTM D7844*   | >6   | <b>0</b>       | 0    | 0    |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>7.3</b>     | 7.6  | 8.6  |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>18.3</b>    | 20.2 | 22.5 |
| Emulsified Water | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG  | NEG  |

## FLUID CONDITION

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.

|              |          |               |     |             |      |      |
|--------------|----------|---------------|-----|-------------|------|------|
| Sodium       | ppm      | ASTM D5185(m) |     | <b>1</b>    | 2    | 2    |
| Boron        | ppm      | ASTM D5185(m) |     | <b>14</b>   | 149  | 160  |
| Barium       | ppm      | ASTM D5185(m) |     | <b>0</b>    | 0    | 0    |
| Molybdenum   | ppm      | ASTM D5185(m) |     | <b>56</b>   | 6    | <1   |
| Manganese    | ppm      | ASTM D5185(m) |     | <b>0</b>    | <1   | 0    |
| Magnesium    | ppm      | ASTM D5185(m) |     | <b>903</b>  | 79   | 11   |
| Calcium      | ppm      | ASTM D5185(m) |     | <b>1052</b> | 2165 | 1927 |
| Phosphorus   | ppm      | ASTM D5185(m) |     | <b>931</b>  | 1021 | 918  |
| Zinc         | ppm      | ASTM D5185(m) |     | <b>1100</b> | 1125 | 1062 |
| Sulfur       | ppm      | ASTM D5185(m) |     | <b>2409</b> | 2970 | 2823 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25 | <b>14.9</b> | 16.7 | 18.0 |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 15  | <b>15.2</b> | 14.6 | 16.0 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0900942  
**Lab Number** : 02626601  
**Unique Number** : 5759733  
**Test Package** : MOB 1

**Received** : 04 Apr 2024  
**Tested** : 04 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Wes Davis

**ED REEB FARMS INC.**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.