



OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Area  
**[142229]**  
 Machine Id  
**WALLACE ST SPS**  
 Component  
**Diesel Engine**  
 Fluid  
**SAE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>WC0919643</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>10 Apr 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>169</b>         | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Chngd</b>   | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Not Chngd</b>   | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

**WEAR**

Metal levels are typical for a new component breaking in.

|          |     |               |      |              |     |     |
|----------|-----|---------------|------|--------------|-----|-----|
| Iron     | ppm | ASTM D5185(m) | >100 | <b>7</b>     | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | --- | --- |
| Nickel   | ppm | ASTM D5185(m) | >4   | <b>0</b>     | --- | --- |
| Titanium | ppm | ASTM D5185(m) |      | <b>&lt;1</b> | --- | --- |
| Silver   | ppm | ASTM D5185(m) | >3   | <b>0</b>     | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>1</b>     | --- | --- |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | --- | --- |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>2</b>     | --- | --- |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>0</b>     | --- | --- |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | --- | --- |

**CONTAMINATION**

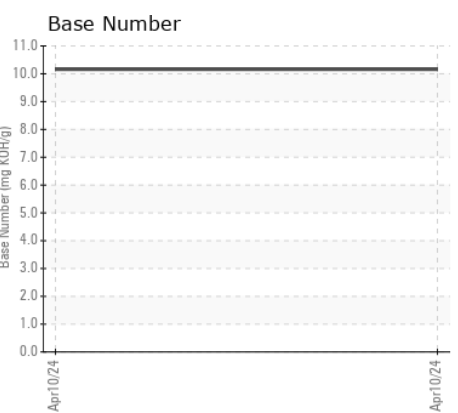
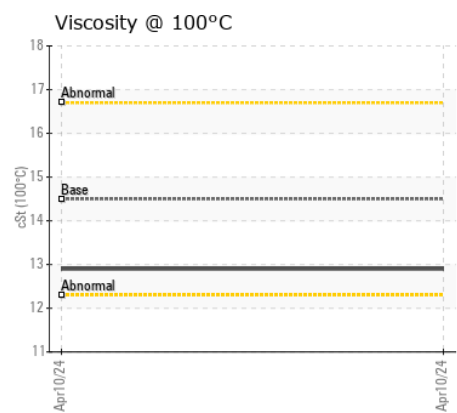
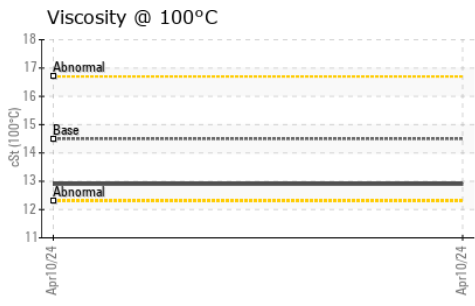
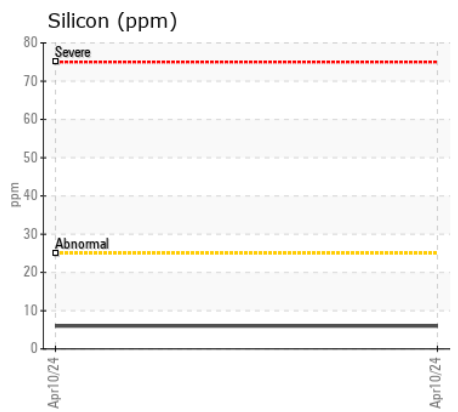
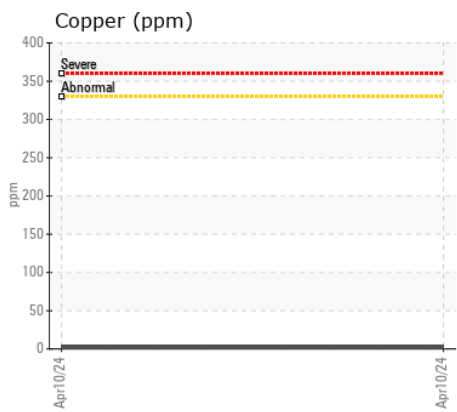
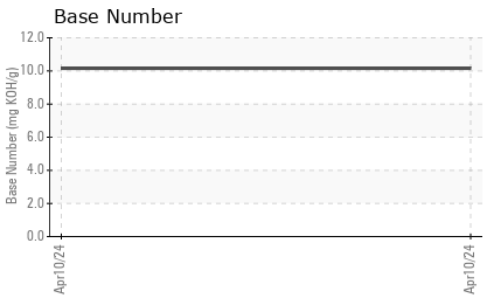
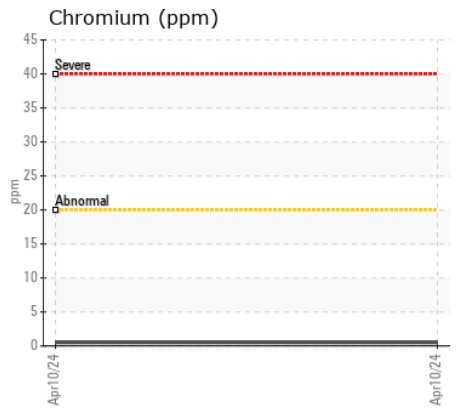
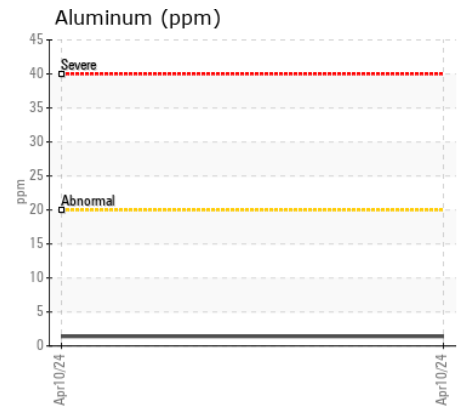
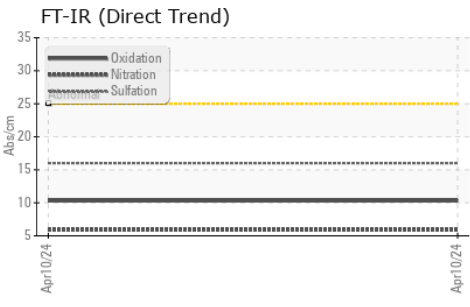
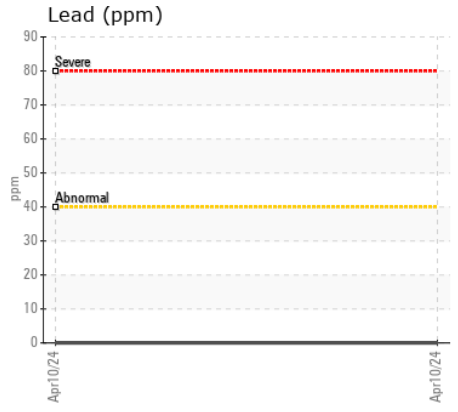
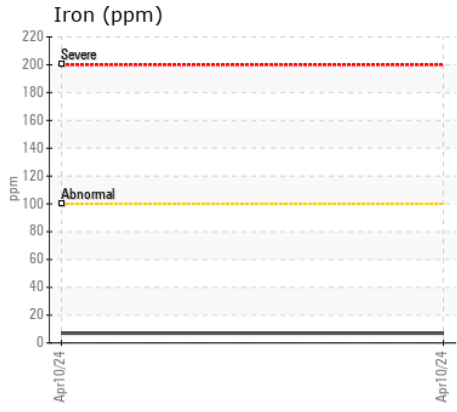
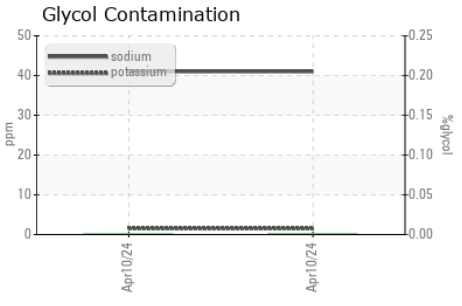
There is no indication of any contamination in the oil.

|                  |          |               |      |                |     |     |
|------------------|----------|---------------|------|----------------|-----|-----|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>6</b>       | --- | --- |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>2</b>       | --- | --- |
| Fuel             |          | WC Method     | >5   | <b>&lt;1.0</b> | --- | --- |
| Water            |          | WC Method     | >0.2 | <b>NEG</b>     | --- | --- |
| Glycol           | %        | ASTM D7922*   |      | <b>0.0</b>     | --- | --- |
| Soot %           | %        | ASTM D7844*   | >3   | <b>0</b>       | --- | --- |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>5.9</b>     | --- | --- |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>16.0</b>    | --- | --- |
| Emulsified Water | scalar   | Visual*       | >0.2 | <b>NEG</b>     | --- | --- |

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

|                  |          |               |      |              |     |     |
|------------------|----------|---------------|------|--------------|-----|-----|
| Sodium           | ppm      | ASTM D5185(m) | >57  | <b>41</b>    | --- | --- |
| Boron            | ppm      | ASTM D5185(m) |      | <b>77</b>    | --- | --- |
| Barium           | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | --- | --- |
| Molybdenum       | ppm      | ASTM D5185(m) |      | <b>33</b>    | --- | --- |
| Manganese        | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | --- | --- |
| Magnesium        | ppm      | ASTM D5185(m) |      | <b>189</b>   | --- | --- |
| Calcium          | ppm      | ASTM D5185(m) |      | <b>2103</b>  | --- | --- |
| Phosphorus       | ppm      | ASTM D5185(m) |      | <b>974</b>   | --- | --- |
| Zinc             | ppm      | ASTM D5185(m) |      | <b>1109</b>  | --- | --- |
| Sulfur           | ppm      | ASTM D5185(m) |      | <b>3151</b>  | --- | --- |
| Oxidation        | Abs/.1mm | ASTM D7414*   | >25  | <b>10.3</b>  | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896*   |      | <b>10.16</b> | --- | --- |
| Visc @ 100°C     | cSt      | ASTM D7279(m) | 14.5 | <b>12.9</b>  | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0919643 **Received** : 15 Apr 2024  
**Lab Number** : 02628673 **Tested** : 16 Apr 2024  
**Unique Number** : 5761805 **Diagnosed** : 16 Apr 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: Glycol )

**GENREP LTD**  
 476 HWY 77, R.R. # 3  
 LEAMINGTON, ON  
 CA N8H 3V6  
 Contact: Debbie Johnston  
 djohnston@genrep.com  
 T: (519)325-0202  
 F: (519)322-0026

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.