



# OIL ANALYSIS REPORT

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

Machine Id  
**60176**  
 Component  
**Blower**  
 Fluid  
**PHILLIPS 66 SYNCON R&O 220 (--- QTS)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>WC0867777</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>27 Jun 2024</b> | ---      | ---      |
| Machine Age    | mls | Client Info |           | <b>1251849</b>     | ---      | ---      |
| Oil Age        | mls | Client Info |           | <b>63649</b>       | ---      | ---      |
| Filter Age     | mls | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ---      | ---      |

## WEAR

The iron level is abnormal. All other component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >20  | <b>▲ 68</b>  | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >20  | <b>● 15</b>  | --- | --- |
| Lead         | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | --- | --- |
| Copper       | ppm    | ASTM D5185m | >20  | <b>2</b>     | --- | --- |
| Tin          | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |

## CONTAMINATION

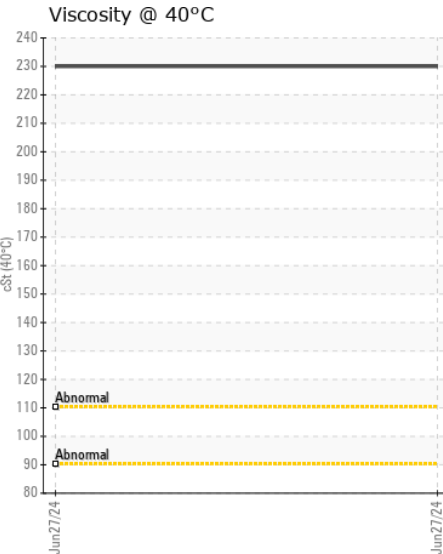
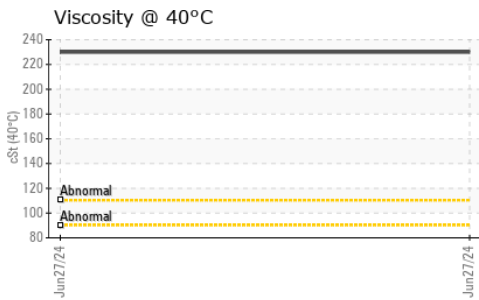
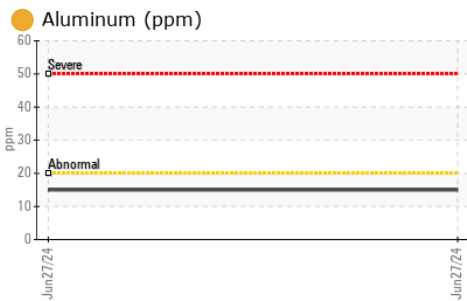
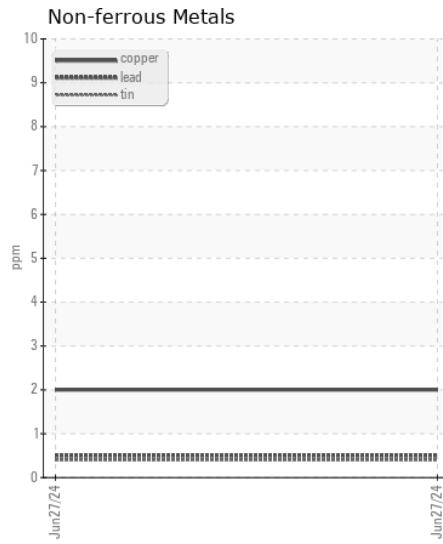
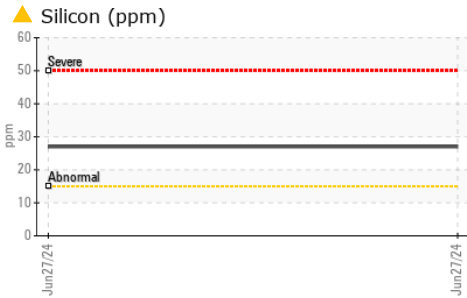
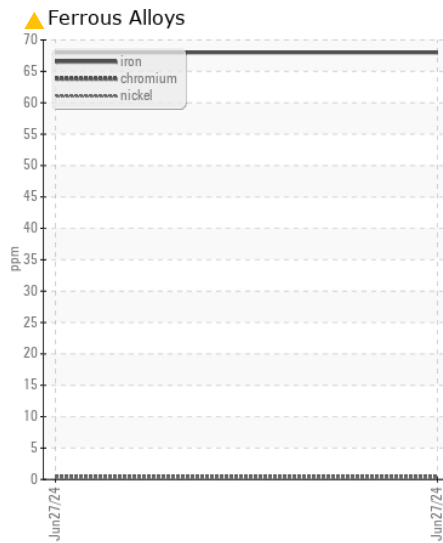
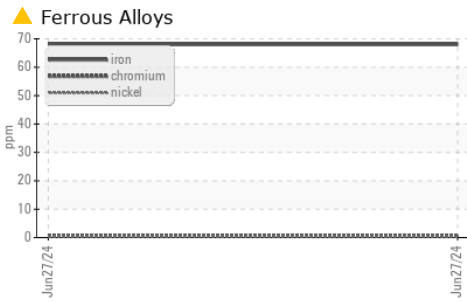
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

|                  |        |             |       |              |     |     |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >15   | <b>▲ 27</b>  | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>3</b>     | --- | --- |
| Water            |        | WC Method   |       | <b>NEG</b>   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Emulsified Water | scalar | *Visual     |       | <b>NEG</b>   | --- | --- |

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

|             |     |             |  |              |     |     |
|-------------|-----|-------------|--|--------------|-----|-----|
| Sodium      | ppm | ASTM D5185m |  | <b>0</b>     | --- | --- |
| Boron       | ppm | ASTM D5185m |  | <b>7</b>     | --- | --- |
| Barium      | ppm | ASTM D5185m |  | <b>&lt;1</b> | --- | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <b>&lt;1</b> | --- | --- |
| Manganese   | ppm | ASTM D5185m |  | <b>2</b>     | --- | --- |
| Magnesium   | ppm | ASTM D5185m |  | <b>22</b>    | --- | --- |
| Calcium     | ppm | ASTM D5185m |  | <b>2826</b>  | --- | --- |
| Phosphorus  | ppm | ASTM D5185m |  | <b>712</b>   | --- | --- |
| Zinc        | ppm | ASTM D5185m |  | <b>6</b>     | --- | --- |
| Sulfur      | ppm | ASTM D5185m |  | <b>2278</b>  | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>230</b>   | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0867777  
**Lab Number** : 06225420  
**Unique Number** : 11103617  
**Test Package** : FLEET

**Received** : 01 Jul 2024  
**Tested** : 09 Jul 2024  
**Diagnosed** : 09 Jul 2024 - Angela Borella

**GREENEVILLE OIL & PETROLEUM INC**  
 860 WEST ANDREW JOHNSON HWY  
 GREENEVILLE, TN  
 US 37745  
 Contact: SHOP  
 shop@burkhardtenterprises.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: