



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



Area  
**FEL**  
Machine Id  
**14211**  
Component  
**Front Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (36)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>PC0089704</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>28 Jun 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

**WEAR**

All component wear rates are normal.

|          |     |               |      |              |     |     |
|----------|-----|---------------|------|--------------|-----|-----|
| Iron     | ppm | ASTM D5185(m) | >120 | <b>22</b>    | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | --- | --- |
| Nickel   | ppm | ASTM D5185(m) | >5   | <b>3</b>     | --- | --- |
| Titanium | ppm | ASTM D5185(m) | >2   | <b>0</b>     | --- | --- |
| Silver   | ppm | ASTM D5185(m) | >2   | <b>&lt;1</b> | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>2</b>     | --- | --- |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>0</b>     | --- | --- |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>21</b>    | --- | --- |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>&lt;1</b> | --- | --- |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | --- | --- |

**CONTAMINATION**

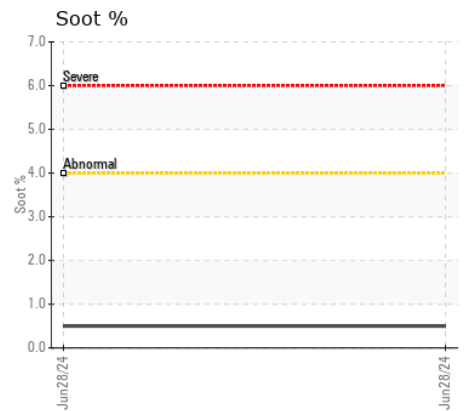
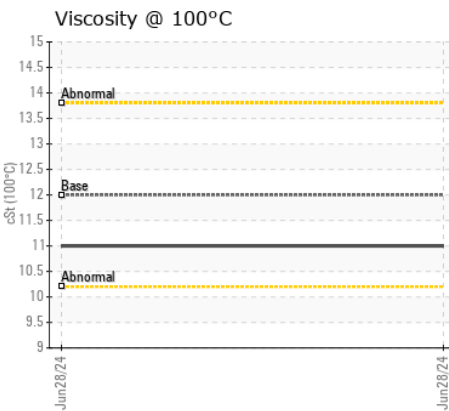
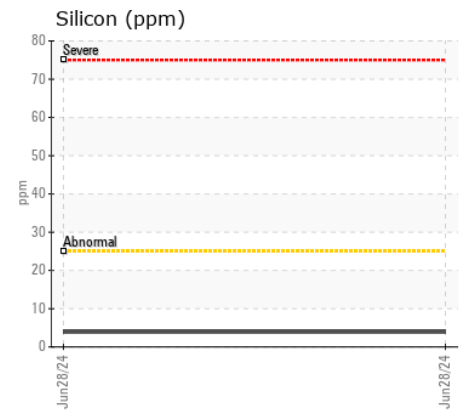
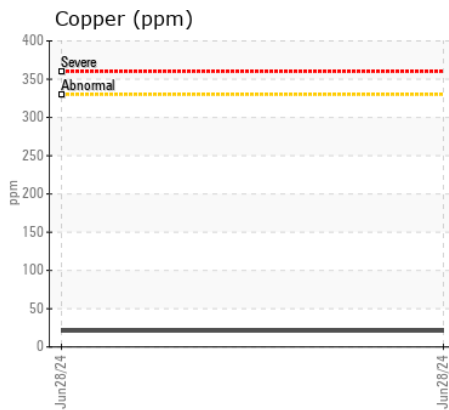
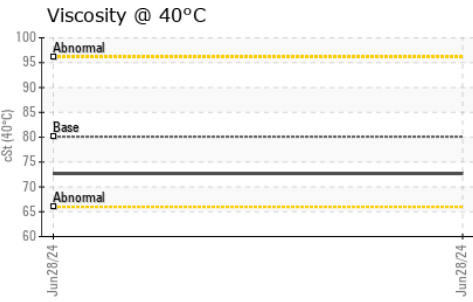
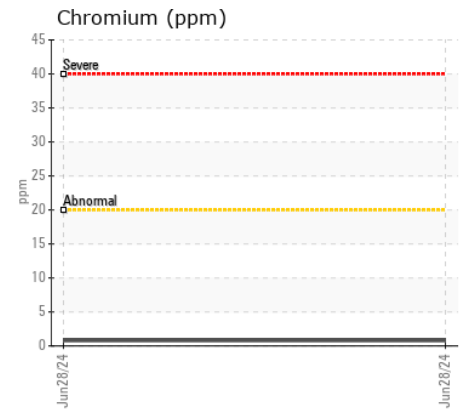
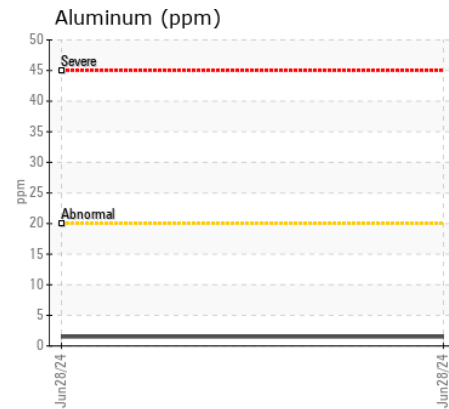
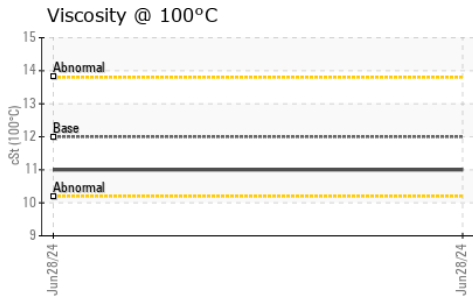
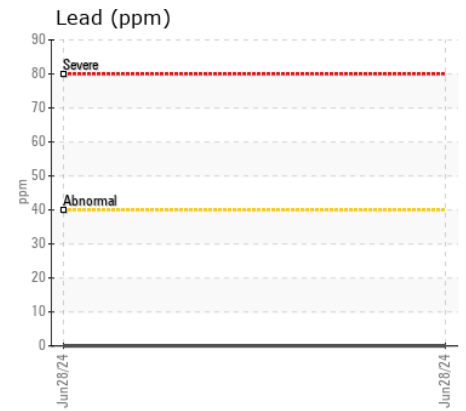
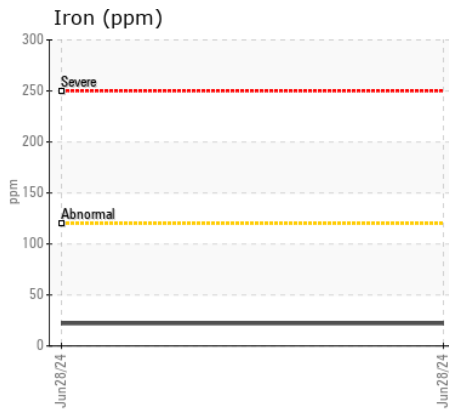
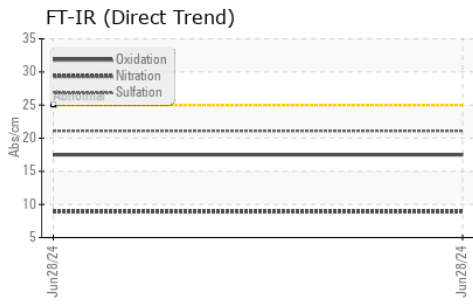
There is no indication of any contamination in the oil.

|                  |          |               |      |                |     |     |
|------------------|----------|---------------|------|----------------|-----|-----|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>4</b>       | --- | --- |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>1</b>       | --- | --- |
| Fuel             |          | WC Method     | >3.0 | <b>&lt;1.0</b> | --- | --- |
| Water            |          | WC Method     | >0.2 | <b>NEG</b>     | --- | --- |
| Glycol           |          | WC Method     |      | <b>NEG</b>     | --- | --- |
| Soot %           | %        | ASTM D7844*   | >4   | <b>0.5</b>     | --- | --- |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>8.9</b>     | --- | --- |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>21.1</b>    | --- | --- |
| Emulsified Water | scalar   | Visual*       | >0.2 | <b>NEG</b>     | --- | --- |

**FLUID CONDITION**

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

|                      |          |               |       |              |     |     |
|----------------------|----------|---------------|-------|--------------|-----|-----|
| Sodium               | ppm      | ASTM D5185(m) |       | <b>10</b>    | --- | --- |
| Boron                | ppm      | ASTM D5185(m) | 2     | <b>6</b>     | --- | --- |
| Barium               | ppm      | ASTM D5185(m) | 0     | <b>&lt;1</b> | --- | --- |
| Molybdenum           | ppm      | ASTM D5185(m) | 50    | <b>60</b>    | --- | --- |
| Manganese            | ppm      | ASTM D5185(m) | 0     | <b>&lt;1</b> | --- | --- |
| Magnesium            | ppm      | ASTM D5185(m) | 950   | <b>938</b>   | --- | --- |
| Calcium              | ppm      | ASTM D5185(m) | 1050  | <b>1070</b>  | --- | --- |
| Phosphorus           | ppm      | ASTM D5185(m) | 995   | <b>918</b>   | --- | --- |
| Zinc                 | ppm      | ASTM D5185(m) | 1180  | <b>1165</b>  | --- | --- |
| Sulfur               | ppm      | ASTM D5185(m) | 2600  | <b>2103</b>  | --- | --- |
| Oxidation            | Abs/.1mm | ASTM D7414*   | >25   | <b>17.5</b>  | --- | --- |
| Visc @ 40°C          | cSt      | ASTM D7279(m) | 80.1  | <b>72.7</b>  | --- | --- |
| Visc @ 100°C         | cSt      | ASTM D7279(m) | 12.00 | <b>11.0</b>  | --- | --- |
| Viscosity Index (VI) | Scale    | ASTM D2270*   | 144   | <b>141</b>   | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0089704 **Received** : 03 Jul 2024  
**Lab Number** : 02645208 **Tested** : 03 Jul 2024  
**Unique Number** : 5802747 **Diagnosed** : 03 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**Wasteco**  
 161 Bridgeland Ave.  
 Toronto, ON  
 CA M6A 1Z1  
 Contact: Steve Andrade  
 sandrade@wasteco.com  
 T: (416)787-5000  
 F: (416)787-6210

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.