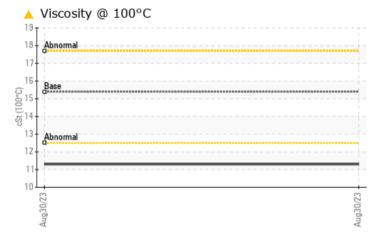


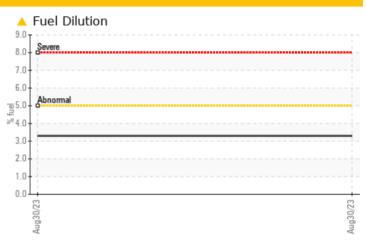
Sample Rating Trend FUEL

#### Machine Id **219012** Component **Diesel Engine**

# PETRO CANADA DURON SHP 15W40 (3 GAL)

## COMPONENT CONDITION SUMMARY





### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| PROBLEMATIC TEST RESULTS |          |
|--------------------------|----------|
| Sample Status            | ABNORMAL |

| Sample Status |     |            |      | ABNORMAL     | <br> |
|---------------|-----|------------|------|--------------|------|
| Fuel          | %   | ASTM D3524 | >5   | <b>A</b> 3.3 | <br> |
| Visc @ 100°C  | cSt | ASTM D445  | 15.4 | <b>11.3</b>  | <br> |

Customer Id: GFL822 Sample No.: GFL0067098 Lab Number: 05955080 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**



# Machine Id 219012

Component Diesel Engine

Fluid

### PETRO CANADA DURON SHP 15W40 (3 GAL)

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring.

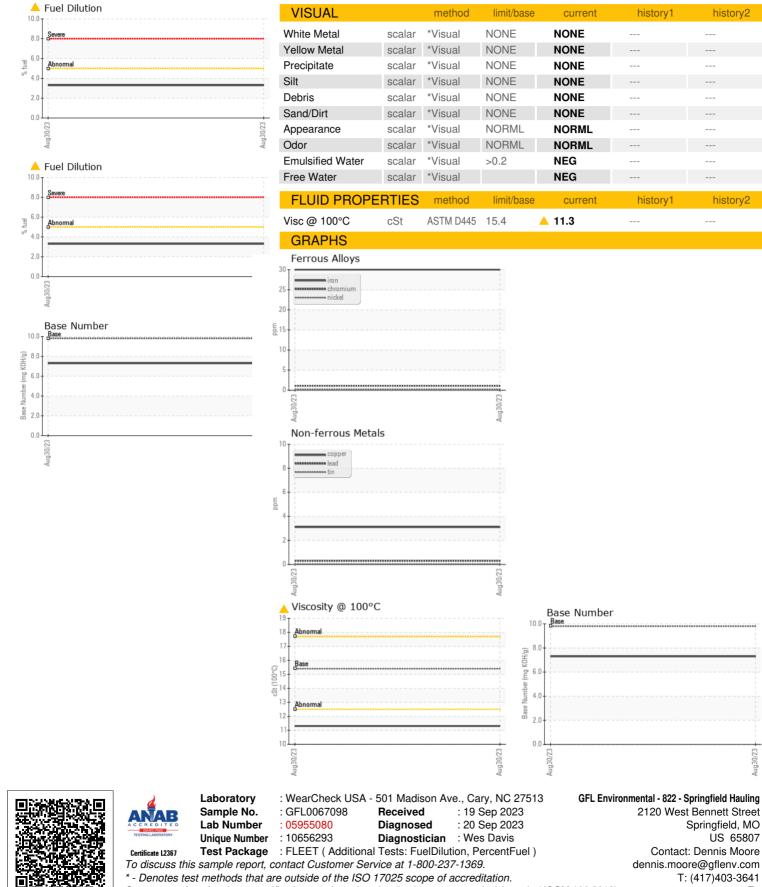
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

| SAMPLE INFORM | <b>IATION</b> | method      | limit/base | current      | history1 | history2 |
|---------------|---------------|-------------|------------|--------------|----------|----------|
| Sample Number |               | Client Info |            | GFL0067098   |          |          |
| Sample Date   |               | Client Info |            | 30 Aug 2023  |          |          |
| Machine Age   | hrs           | Client Info |            | 1170         |          |          |
| Oil Age       | hrs           | Client Info |            | 700          |          |          |
| Oil Changed   |               | Client Info |            | Changed      |          |          |
| Sample Status |               |             |            | ABNORMAL     |          |          |
| CONTAMINATI   | ON            | method      | limit/base | current      | history1 | history2 |
| Glycol        |               | WC Method   |            | NEG          |          |          |
| WEAR METALS   | 5             | method      | limit/base | current      | history1 | history2 |
| Iron          | ppm           | ASTM D5185m | >100       | 30           |          |          |
| Chromium      | ppm           | ASTM D5185m | >20        | 1            |          |          |
| Nickel        | ppm           | ASTM D5185m | >2         | <1           |          |          |
| Titanium      | ppm           | ASTM D5185m | >2         | <1           |          |          |
| Silver        | ppm           | ASTM D5185m | >2         | 0            |          |          |
| Aluminum      | ppm           | ASTM D5185m | >25        | 8            |          |          |
| Lead          | ppm           | ASTM D5185m | >40        | <1           |          |          |
| Copper        | ppm           | ASTM D5185m | >330       | 3            |          |          |
| Tin           | ppm           | ASTM D5185m | >15        | 0            |          |          |
| Vanadium      | ppm           | ASTM D5185m |            | 0            |          |          |
| Cadmium       | ppm           | ASTM D5185m |            | 0            |          |          |
| ADDITIVES     |               | method      | limit/base | current      | history1 | history2 |
| Boron         | ppm           | ASTM D5185m | 0          | 28           |          |          |
| Barium        | ppm           | ASTM D5185m | 0          | 0            |          |          |
| Molybdenum    | ppm           | ASTM D5185m | 60         | 10           |          |          |
| Manganese     | ppm           | ASTM D5185m | 0          | <1           |          |          |
| Magnesium     | ppm           | ASTM D5185m | 1010       | 758          |          |          |
| Calcium       | ppm           | ASTM D5185m | 1070       | 1277         |          |          |
| Phosphorus    | ppm           | ASTM D5185m | 1150       | 1065         |          |          |
| Zinc          | ppm           | ASTM D5185m | 1270       | 1239         |          |          |
| Sulfur        | ppm           | ASTM D5185m | 2060       | 4013         |          |          |
| CONTAMINAN    | ΓS            | method      | limit/base | current      | history1 | history2 |
| Silicon       | ppm           | ASTM D5185m | >25        | 13           |          |          |
| Sodium        | ppm           | ASTM D5185m |            | 3            |          |          |
| Potassium     | ppm           | ASTM D5185m | >20        | 3            |          |          |
| Fuel          | %             | ASTM D3524  | >5         | <b>A</b> 3.3 |          |          |
| INFRA-RED     |               | method      | limit/base | current      | history1 | history2 |
| Soot %        | %             | *ASTM D7844 | >3         | 0.4          |          |          |
| Nitration     | Abs/cm        | *ASTM D7624 | >20        | 10.4         |          |          |
| Sulfation     | Abs/.1mm      | *ASTM D7415 | >30        | 21.4         |          |          |
|               | ATION         | method      | limit/base | current      | history1 | history2 |
| FLUID DEGRAD  |               |             |            |              |          |          |
| Oxidation     | Abs/.1mm      | *ASTM D7414 | >25        | 15.8         |          |          |



# **OIL ANALYSIS REPORT**



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

Submitted By: Dennis Moore

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history2

history2