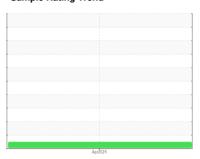


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



4827
Component
Diesel Engine

Machine Id

PETRO CANADA DURON SHP 15W40 (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

Metal levels are typical for a new component breaking in.

## Contamination

There is no indication of any contamination in the

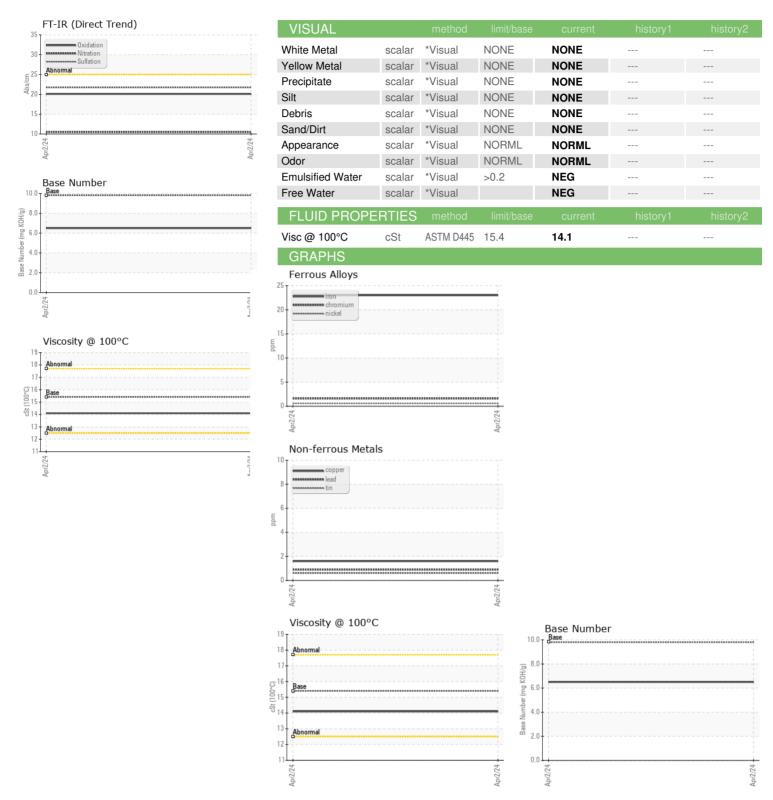
### **Fluid Condition**

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

| GAL)                      |          |             |             | Apr2024        |          |          |
|---------------------------|----------|-------------|-------------|----------------|----------|----------|
| SAMPLE INFORI             | MATION   | method      | limit/base  | current        | history1 | history2 |
|                           | VIATION  |             | IIIIII/Dase | current        |          | HISTOTYZ |
| Sample Number             |          | Client Info |             | GFL0104494     |          |          |
| Sample Date               |          | Client Info |             | 02 Apr 2024    |          |          |
| Machine Age               | hrs      | Client Info |             | 701            |          |          |
| Oil Age                   | hrs      | Client Info |             | 300            |          |          |
| Oil Changed Sample Status |          | Client Info |             | Changed NORMAL |          |          |
|                           |          |             |             | NORMAL         |          |          |
| CONTAMINAT                | ION      | method      | limit/base  | current        | history1 | history2 |
| Fuel                      |          | WC Method   | >5          | <1.0           |          |          |
| Water                     |          | WC Method   | >0.2        | NEG            |          |          |
| Glycol                    |          | WC Method   |             | NEG            |          |          |
| WEAR METAL                | S        | method      | limit/base  | current        | history1 | history2 |
| Iron                      | ppm      | ASTM D5185m | >100        | 23             |          |          |
| Chromium                  | ppm      | ASTM D5185m | >20         | 2              |          |          |
| Nickel                    | ppm      | ASTM D5185m | >4          | <1             |          |          |
| Titanium                  | ppm      | ASTM D5185m |             | <1             |          |          |
| Silver                    | ppm      | ASTM D5185m | >3          | <1             |          |          |
| Aluminum                  | ppm      | ASTM D5185m | >20         | 3              |          |          |
| Lead                      | ppm      | ASTM D5185m | >40         | <1             |          |          |
| Copper                    | ppm      | ASTM D5185m | >330        | 2              |          |          |
| Tin                       | ppm      | ASTM D5185m | >15         | <1             |          |          |
| Vanadium                  | ppm      | ASTM D5185m |             | <1             |          |          |
| Cadmium                   | ppm      | ASTM D5185m |             | <1             |          |          |
| ADDITIVES                 |          | method      | limit/base  | current        | history1 | history2 |
| Boron                     | ppm      | ASTM D5185m | 0           | 1              |          |          |
| Barium                    | ppm      | ASTM D5185m | 0           | 0              |          |          |
| Molybdenum                | ppm      | ASTM D5185m | 60          | 64             |          |          |
| Manganese                 | ppm      | ASTM D5185m | 0           | <1             |          |          |
| Magnesium                 | ppm      | ASTM D5185m | 1010        | 980            |          |          |
| Calcium                   | ppm      | ASTM D5185m | 1070        | 1079           |          |          |
| Phosphorus                | ppm      | ASTM D5185m | 1150        | 1001           |          |          |
| Zinc                      | ppm      | ASTM D5185m | 1270        | 1274           |          |          |
| Sulfur                    | ppm      | ASTM D5185m | 2060        | 2846           |          |          |
| CONTAMINAN                | TS       | method      | limit/base  | current        | history1 | history2 |
| Silicon                   | ppm      | ASTM D5185m | >25         | 6              |          |          |
| Sodium                    | ppm      | ASTM D5185m |             | 8              |          |          |
| Potassium                 | ppm      | ASTM D5185m | >20         | 2              |          |          |
| INFRA-RED                 |          | method      | limit/base  | current        | history1 | history2 |
| Soot %                    | %        | *ASTM D7844 | >3          | 0.4            |          |          |
| Nitration                 | Abs/cm   | *ASTM D7624 | >20         | 10.5           |          |          |
| Sulfation                 | Abs/.1mm | *ASTM D7415 | >30         | 21.7           |          |          |
| FLUID DEGRA               | OITAC    | method      | limit/base  | current        | history1 | history2 |
| Oxidation                 | Abs/.1mm | *ASTM D7414 | >25         | 20.1           |          |          |
| Base Number (BN)          | mg KOH/g | ASTM D2896  | 9.8         | 6.5            |          |          |



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Unique Number : 10965751

: GFL0104494 Lab Number : 06140943

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024 **Tested** 

Diagnosed

: 08 Apr 2024 : 08 Apr 2024 - Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

Test Package : FLEET Certificate 12367 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)

Report Id: GFL410 [WUSCAR] 06140943 (Generated: 04/08/2024 18:29:57) Rev: 1

Contact/Location: "Billy" see also GFL468 - Belal Dgheish - GFL410