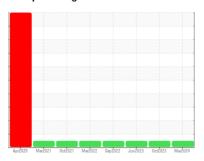


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
DT682
Component
Diesel Engine

## PETRO CANADA DURON SHP 10W30 (36 mls)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

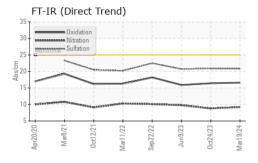
### **Fluid Condition**

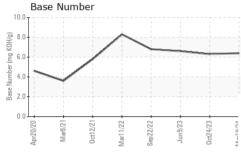
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

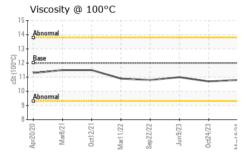
| mls)             |          | Apr2020 N   | Mar2021 Oct2021 Mar203 | 22 Sep2022 Jun2023 Oct2023 | Mar2024     |             |
|------------------|----------|-------------|------------------------|----------------------------|-------------|-------------|
| SAMPLE INFOR     | MATION   | method      | limit/base             | current                    | history1    | history2    |
| Sample Number    |          | Client Info |                        | PCA0111577                 | PCA0101827  | PCA0095252  |
| Sample Date      |          | Client Info |                        | 19 Mar 2024                | 24 Oct 2023 | 09 Jun 2023 |
| Machine Age      | mls      | Client Info |                        | 22739                      | 22739       | 22739       |
| Oil Age          | mls      | Client Info |                        | 22739                      | 22739       | 22739       |
| Oil Changed      |          | Client Info |                        | N/A                        | N/A         | N/A         |
| Sample Status    |          |             |                        | NORMAL                     | NORMAL      | NORMAL      |
| CONTAMINAT       | ION      | method      | limit/base             | current                    | history1    | history2    |
| Fuel             |          | WC Method   | >5                     | <1.0                       | <1.0        | <1.0        |
| Water            |          | WC Method   | >0.2                   | NEG                        | NEG         | NEG         |
| Glycol           |          | WC Method   |                        | NEG                        | NEG         | NEG         |
| WEAR METAL       | S        | method      | limit/base             | current                    | history1    | history2    |
| Iron             | ppm      | ASTM D5185m | >110                   | 9                          | 17          | 13          |
| Chromium         | ppm      | ASTM D5185m | >4                     | <1                         | <1          | <1          |
| Nickel           | ppm      | ASTM D5185m | >2                     | 0                          | <1          | <1          |
| Titanium         | ppm      | ASTM D5185m |                        | 0                          | 0           | <1          |
| Silver           | ppm      | ASTM D5185m | >2                     | 0                          | <1          | 0           |
| Aluminum         | ppm      | ASTM D5185m | >25                    | 3                          | 2           | <1          |
| Lead             | ppm      | ASTM D5185m | >45                    | 0                          | <1          | <1          |
| Copper           | ppm      | ASTM D5185m | >85                    | <1                         | 2           | 2           |
| Tin              | ppm      | ASTM D5185m | >4                     | 0                          | <1          | <1          |
| Vanadium         | ppm      | ASTM D5185m |                        | 0                          | 0           | 0           |
| Cadmium          | ppm      | ASTM D5185m |                        | 0                          | 0           | 0           |
| ADDITIVES        |          | method      | limit/base             | current                    | history1    | history2    |
| Boron            | ppm      | ASTM D5185m | 2                      | 6                          | 7           | 2           |
| Barium           | ppm      | ASTM D5185m | 0                      | 0                          | 7           | 0           |
| Molybdenum       | ppm      | ASTM D5185m | 50                     | 65                         | 77          | 66          |
| Manganese        | ppm      | ASTM D5185m | 0                      | <1                         | <1          | <1          |
| Magnesium        | ppm      | ASTM D5185m | 950                    | 918                        | 1023        | 877         |
| Calcium          | ppm      | ASTM D5185m | 1050                   | 1119                       | 1303        | 1163        |
| Phosphorus       | ppm      | ASTM D5185m | 995                    | 1007                       | 1158        | 992         |
| Zinc             | ppm      | ASTM D5185m | 1180                   | 1148                       | 1425        | 1227        |
| Sulfur           | ppm      | ASTM D5185m | 2600                   | 3041                       | 3828        | 3051        |
| CONTAMINAN       | ITS      | method      | limit/base             | current                    | history1    | history2    |
| Silicon          | ppm      | ASTM D5185m | >30                    | <1                         | 5           | 4           |
| Sodium           | ppm      | ASTM D5185m |                        | 4                          | <1          | <1          |
| Potassium        | ppm      | ASTM D5185m | >20                    | 0                          | 4           | 3           |
| INFRA-RED        |          | method      | limit/base             | current                    | history1    | history2    |
| Soot %           | %        | *ASTM D7844 | >3                     | 0.7                        | 0.6         | 0.4         |
| Nitration        | Abs/cm   | *ASTM D7624 | >20                    | 9.2                        | 8.8         | 9.8         |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30                    | 20.8                       | 20.9        | 20.7        |
| FLUID DEGRAI     | OATION   | method      | limit/base             | current                    | history1    | history2    |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25                    | 16.6                       | 16.4        | 15.9        |
| Base Number (BN) | mg KOH/g | ASTM D2896  |                        | 6.4                        | 6.3         | 6.6         |

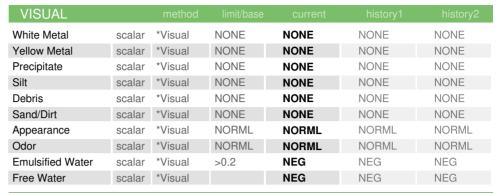


## **OIL ANALYSIS REPORT**



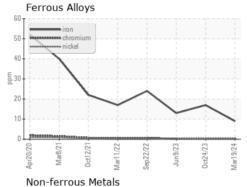


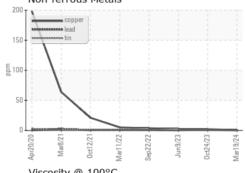


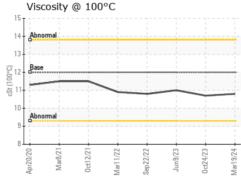


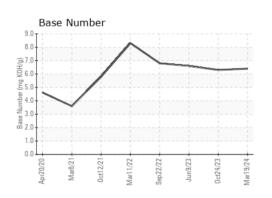
| FLUID PROP   | EKIIES | method    | ilmit/base |      | nistory i | nistoryz |
|--------------|--------|-----------|------------|------|-----------|----------|
| Visc @ 100°C | cSt    | ASTM D445 | 12.00      | 10.8 | 10.7      | 11.0     |

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: PCA0111577 Lab Number : 06157383 Unique Number : 10992806 Test Package : FLEET

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

: 23 Apr 2024 : 24 Apr 2024 Diagnosed : 24 Apr 2024 - Wes Davis

1491 YENMASSEE HIGHWAY VARNVILLE, SC US 29944

**NW WHITE & CO - BEAUFORT DIVISION** 

Contact: VINCENT BULLOCK bullockvince514@gmail.com

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

T:

F: