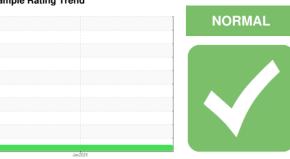


# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



Machine Id

# **BLUE BIRD 003009**

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 C

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a components first oil change.

#### Contamination

There is no indication of any contamination in the

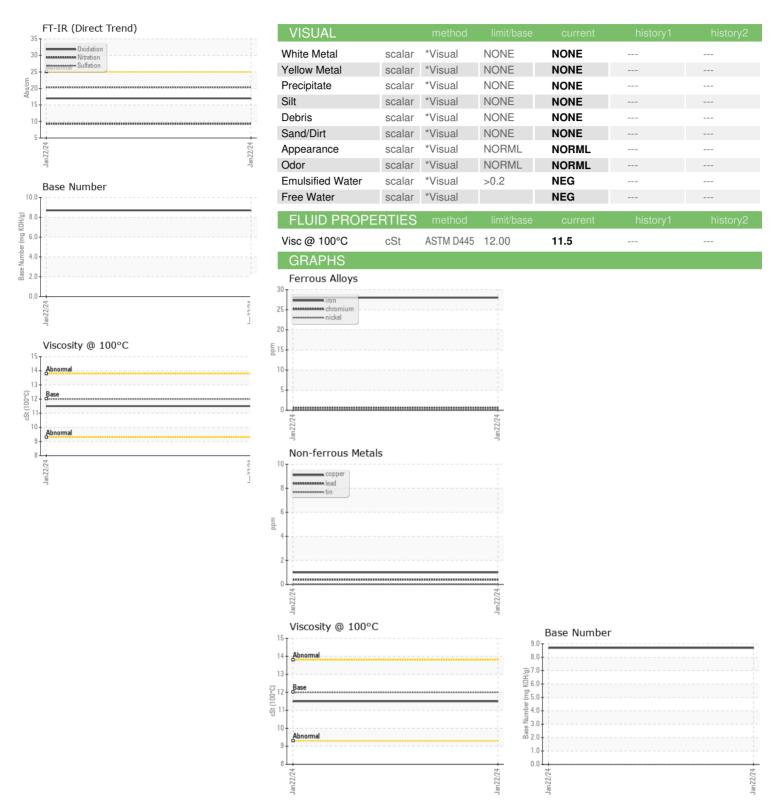
#### **Fluid Condition**

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

|                  |          |               | Jan 2024   |             |          |          |  |
|------------------|----------|---------------|------------|-------------|----------|----------|--|
| QTS)             |          |               |            |             |          |          |  |
| SAMPLE INFORI    | MATION   | method        | limit/base | current     | history1 | history2 |  |
| Sample Number    |          | Client Info   |            | PCA0112677  |          |          |  |
| Sample Date      |          | Client Info   |            | 22 Jan 2024 |          |          |  |
| Machine Age      | mls      | Client Info   |            | 90869       |          |          |  |
| Oil Age          | mls      | Client Info   |            | 90869       |          |          |  |
| Oil Changed      | 11113    | Client Info   |            | Changed     |          |          |  |
| Sample Status    |          | Oliciti IIIIo |            | NORMAL      |          |          |  |
| ·                |          |               |            |             |          |          |  |
| CONTAMINAT       | ION      | method        | limit/base | current     | history1 | history2 |  |
| Fuel             |          | WC Method     | >3.0       | <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   | >90        | 28          |          |          |  |
| Chromium         | ppm      | ASTM D5185m   | >20        | <1          |          |          |  |
| Nickel           | ppm      | ASTM D5185m   | >2         | 0           |          |          |  |
| Titanium         | ppm      | ASTM D5185m   | >2         | <1          |          |          |  |
| Silver           | ppm      | ASTM D5185m   | >2         | 0           |          |          |  |
| Aluminum         | ppm      | ASTM D5185m   | >20        | 4           |          |          |  |
| Lead             | ppm      | ASTM D5185m   | >40        | <1          |          |          |  |
| Copper           | ppm      | ASTM D5185m   | >330       | 1           |          |          |  |
| Tin              | ppm      | ASTM D5185m   | >15        | 0           |          |          |  |
| Vanadium         | ppm      | ASTM D5185m   |            | <1          |          |          |  |
| Cadmium          | ppm      | ASTM D5185m   |            | 0           |          |          |  |
| ADDITIVES        |          | method        | limit/base | current     | history1 | history2 |  |
| Boron            | ppm      | ASTM D5185m   | 2          | 2           |          |          |  |
| Barium           | ppm      | ASTM D5185m   | 0          | 0           |          |          |  |
| Molybdenum       | ppm      | ASTM D5185m   | 50         | 60          |          |          |  |
| Manganese        | ppm      | ASTM D5185m   | 0          | <1          |          |          |  |
| Magnesium        | ppm      | ASTM D5185m   | 950        | 998         |          |          |  |
| Calcium          | ppm      | ASTM D5185m   | 1050       | 1167        |          |          |  |
| Phosphorus       | ppm      | ASTM D5185m   | 995        | 1115        |          |          |  |
| Zinc             | ppm      | ASTM D5185m   | 1180       | 1343        |          |          |  |
| Sulfur           | ppm      | ASTM D5185m   | 2600       | 3681        |          |          |  |
| CONTAMINAN       | TS       | method        | limit/base | current     | history1 | history2 |  |
| Silicon          | ppm      | ASTM D5185m   | >25        | 4           |          |          |  |
| Sodium           | ppm      | ASTM D5185m   |            | 3           |          |          |  |
| Potassium        | ppm      | ASTM D5185m   | >20        | 8           |          |          |  |
| INFRA-RED        |          | method        | limit/base | current     | history1 | history2 |  |
| Soot %           | %        | *ASTM D7844   | >6         | 8.0         |          |          |  |
| Nitration        | Abs/cm   | *ASTM D7624   | >20        | 9.3         |          |          |  |
| Sulfation        | Abs/.1mm | *ASTM D7415   | >30        | 20.3        |          |          |  |
| FLUID DEGRA      | DATION   | method        | limit/base | current     | history1 | history2 |  |
| Oxidation        | Abs/.1mm | *ASTM D7414   | >25        | 17.0        |          |          |  |
| Base Number (BN) | mg KOH/g | ASTM D2896    |            | 8.7         |          |          |  |
| . ,              |          |               |            |             |          |          |  |



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Test Package : FLEET

: PCA0112677 Lab Number : 06215340 Unique Number : 11088204

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 21 Jun 2024 Diagnosed

: 21 Jun 2024 - Wes Davis

ICSB370 - Alton 4525 North Alby Road Godfrey, IL US 62035 Contact: Chad Ingold c.ingold@illinois-central.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) Report Id: ICSB370 [WUSCAR] 06215340 (Generated: 06/21/2024 11:55:51) Rev: 1

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