

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id **517005**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

Oil and filter 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

Fuel content negligible. There is no indication of any contamination in the oil.

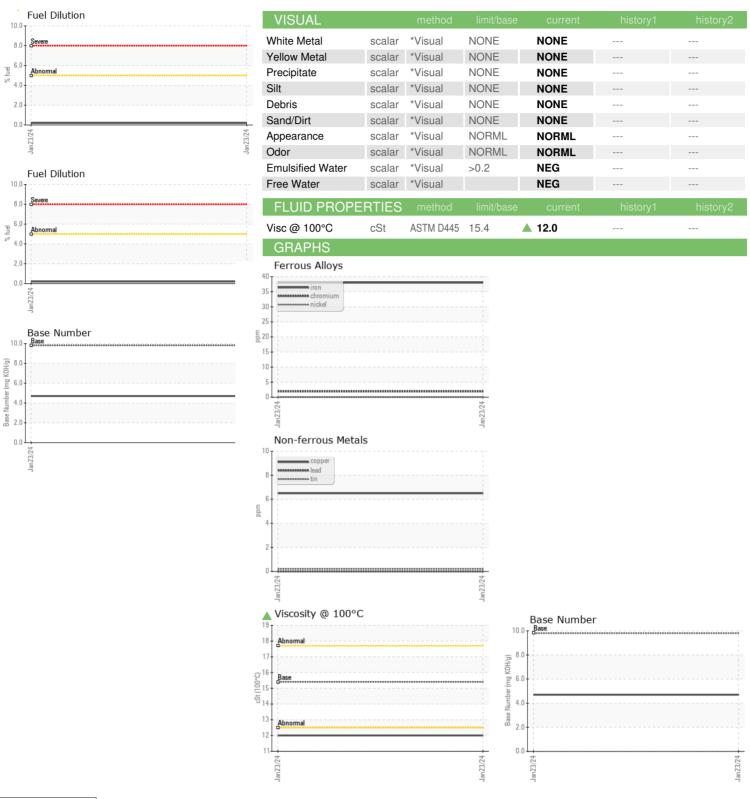
▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| GAL) | | | | | | |
|------------------|----------|-------------|------------|-------------|----------|----------|
| • | MATION | | | Jan 2024 | | 1: |
| SAMPLE INFOR | MATION | | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0100396 | | |
| Sample Date | | Client Info | | 23 Jan 2024 | | |
| Machine Age | hrs | Client Info | | 9774 | | |
| Oil Age | hrs | Client Info | | 571 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ATTENTION | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| Glycol | | WC Method | | NEG | | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >80 | 38 | | |
| Chromium | ppm | ASTM D5185m | >5 | 2 | | |
| Nickel | ppm | ASTM D5185m | >2 | 0 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >30 | 20 | | |
| Lead | ppm | ASTM D5185m | >30 | 0 | | |
| Copper | ppm | ASTM D5185m | >150 | 6 | | |
| Tin | ppm | ASTM D5185m | >5 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 36 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 60 | 59 | | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | | |
| Magnesium | ppm | ASTM D5185m | 1010 | 416 | | |
| Calcium | ppm | ASTM D5185m | 1070 | 1720 | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 952 | | |
| Zinc | ppm | ASTM D5185m | 1270 | 1226 | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3030 | | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 4 | | |
| Sodium | ppm | ASTM D5185m | | 2 | | |
| Potassium | ppm | ASTM D5185m | >20 | 31 | | |
| Fuel | % | ASTM D3524 | >5 | 0.2 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.5 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.3 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.3 | | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.2 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 4.7 | | |
| (DIV) | | | | | | |



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Laboratory Sample No. Lab Number **Unique Number**

: GFL0100396 : 06073485 : 10850162

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 : 31 Jan 2024 Diagnosed

Diagnostician : Don Baldridge **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

GFL Environmental - 935 - Omro HC

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