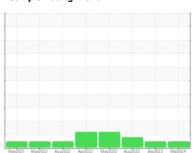


OIL ANALYSIS REPORT

Sample Rating Trend









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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

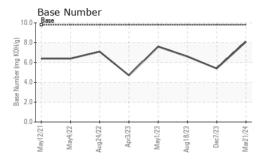
Fluid Condition

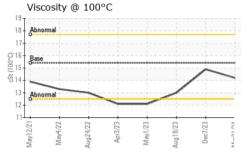
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | May2021 N | May2022 Aug2022 Apr20. | | | |
|------------------|----------|-------------|------------------------|-------------|-------------|--------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0116939 | GFL0107021 | GFL0091488 |
| Sample Date | | Client Info | | 21 Mar 2024 | 07 Dec 2023 | 18 Aug 2023 |
| Machine Age | hrs | Client Info | | 10004 | 9751 | 12094 |
| Oil Age | hrs | Client Info | | 600 | 600 | 600 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | MARGINAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | ▲ 3.3 |
| 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 | >80 | 17 | 40 | 24 |
| Chromium | ppm | ASTM D5185m | >5 | 0 | 1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | 6 | 3 |
| Lead | ppm | ASTM D5185m | >30 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >150 | <1 | 2 | 2 |
| Tin | ppm | ASTM D5185m | | <1 | 0 | 0 |
| 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 | 0 | 3 | <1 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | 60 | 50 | 60 | 62 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 852 | 1085 | 878 |
| Calcium | ppm | ASTM D5185m | 1070 | 960 | 1234 | 1102 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 895 | 1132 | 1028 |
| Zinc | ppm | ASTM D5185m | 1270 | 1159 | 1323 | 1229 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3012 | 2788 | 2829 |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 2 | 11 | 4 |
| Sodium | ppm | ASTM D5185m | | 3 | 7 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 3 | 6 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.7 | 1.3 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.6 | 12.6 | 9.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.8 | 25.5 | 20.6 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.6 | 22.6 | 18.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.1 | 5.4 | 6.6 |
| | 39 | | | | | |



OIL ANALYSIS REPORT

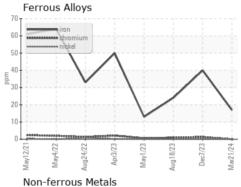


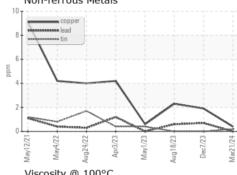


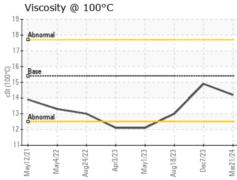
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

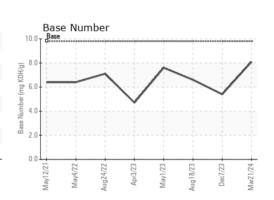
| FLUID PROPI | ERTIES | method | | | | history2 |
|--------------|--------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.2 | 14.9 | 13.0 |

GRAPHS













Laboratory Sample No.

Lab Number : 06126318 Unique Number : 10940469

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116939

Received **Tested** Diagnosed Test Package : FLEET

: 22 Mar 2024 : 25 Mar 2024 : 25 Mar 2024 - Wes Davis GFL Environmental - 465 - Pontiac

888 Baldwin Pontiac, MI US 48340

Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

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)