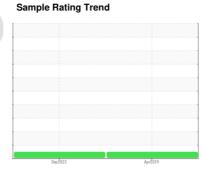


OIL ANALYSIS REPORT



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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

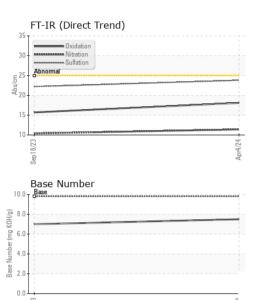
Fluid Condition

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

| ` | GAL) | | Sep2023 | | | |
|---------------|----------|-------------|------------|-------------|-------------|----------|
| SAMPLE INFOR | RMATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0106240 | GFL0066987 | |
| Sample Date | | Client Info | | 04 Apr 2024 | 18 Sep 2023 | |
| Machine Age | hrs | Client Info | | 17602 | 16945 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINAT | TION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | |
| Water | | WC Method | >0.2 | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | |
| WEAR METAL | _S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >120 | 37 | 29 | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | |
| Nickel | ppm | ASTM D5185m | >5 | 0 | <1 | |
| Titanium | ppm | ASTM D5185m | >2 | 0 | <1 | |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 4 | |
| Lead | ppm | ASTM D5185m | >40 | <1 | <1 | |
| Copper | ppm | ASTM D5185m | >330 | <1 | 2 | |
| Tin | ppm | ASTM D5185m | >15 | 0 | 1 | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | <1 | 5 | |
| Barium | ppm | ASTM D5185m | 0 | <1 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 60 | 61 | 61 | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 1 | |
| Magnesium | ppm | ASTM D5185m | 1010 | 886 | 913 | |
| Calcium | ppm | ASTM D5185m | 1070 | 1042 | 1141 | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 953 | 992 | |
| Zinc | ppm | ASTM D5185m | 1270 | 1191 | 1213 | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3158 | 3456 | |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | 8 | |
| Sodium | ppm | ASTM D5185m | | 5 | 12 | |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 2.3 | 2.1 | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.4 | 10.4 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.8 | 22.2 | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.1 | 15.7 | |



OIL ANALYSIS REPORT

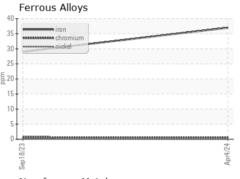


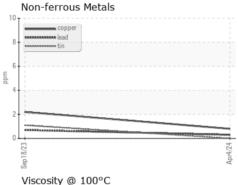
Viscosity @ 100°C

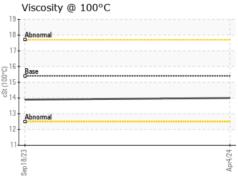
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| Precipitate | scalar |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

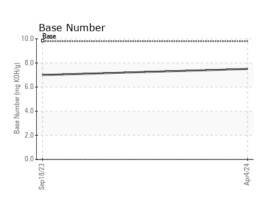
| FLUID PROPI | ERIIES | method | | | | history2 |
|--------------|--------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.0 | 13.9 | |

GRAPHS













Sample No.

: GFL0106240 Lab Number : 06157495 Unique Number : 10992918

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

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

GFL Environmental - 916 - Greenbay HC

1799 County Trunk PP DePere, WI US 54115

Contact: Travis Runge travis.runge@gflenv.com T: (920)351-2341

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: GFL916 [WUSCAR] 06157495 (Generated: 04/24/2024 11:36:45) Rev: 1

Contact/Location: Travis Runge - GFL916