

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 929034

Fluid

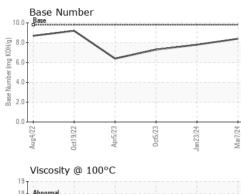
Component **Diesel Engine**

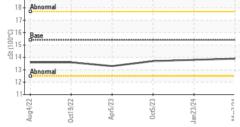
PETRO CANADA DURON SHP 15W40 (--- GAL)

| | | | Aug2022 | Uct2UZZ Apr2UZ3 | 3 Oct2023 Jan2024 | Mar2024 | |
|--|-------------------------|----------|-------------|-----------------|-------------------|-------------|-------------|
| DIAGNOSIS | SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Recommendation | Sample Number | | Client Info | | GFL0113981 | GFL0086745 | GFL0086718 |
| Resample at the next service interval to monitor. | Sample Date | | Client Info | | 07 Mar 2024 | 23 Jan 2024 | 05 Oct 2023 |
| Wear | Machine Age | hrs | Client Info | | 40078 | 39789 | 39227 |
| All component wear rates are normal. | Oil Age | hrs | Client Info | | 289 | 562 | 39227 |
| Contamination | Oil Changed | | Client Info | | Changed | Changed | Changed |
| There is no indication of any contamination in the | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| oil. | CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fluid Condition | Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| The BN result indicates that there is suitable | Water | | WC Method | | NEG | NEG | NEG |
| alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Glycol | | WC Method | 20.2 | NEG | NEG | NEG |
| | - | 0 | | | | | |
| | WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| | Iron | ppm | ASTM D5185m | | 4 | 9 | 12 |
| | Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| | Nickel | ppm | ASTM D5185m | | 0 | <1 | <1 |
| | Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >20 | 2 | 2 | 3 |
| | Lead | ppm | ASTM D5185m | >40 | 0 | <1 | <1 |
| | Copper | ppm | ASTM D5185m | >330 | 0 | 0 | 1 |
| | Tin | ppm | ASTM D5185m | >15 | 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 | 0 | 0 | 2 | 1 |
| | Barium | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 62 | 58 | 64 |
| | Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | 0 |
| | Magnesium | ppm | ASTM D5185m | 1010 | 993 | 894 | 983 |
| | Calcium | ppm | ASTM D5185m | 1070 | 1077 | 982 | 1068 |
| | Phosphorus | ppm | ASTM D5185m | 1150 | 1077 | 969 | 1024 |
| | Zinc | ppm | ASTM D5185m | 1270 | 1279 | 1173 | 1267 |
| | Sulfur | ppm | ASTM D5185m | 2060 | 3449 | 2643 | 3345 |
| | CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| | Silicon | ppm | ASTM D5185m | >25 | 3 | 4 | 5 |
| | Sodium | ppm | ASTM D5185m | | 2 | 6 | 5 |
| | Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | 2 |
| | INFRA-RED | | method | limit/base | current | history1 | history2 |
| | Soot % | % | *ASTM D7844 | >4 | 0.4 | 0.6 | 0.8 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 8.4 | 10.4 | 10.4 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.1 | 21.8 | 22.5 |
| | FLUID DEGRAI | | method | limit/base | current | history1 | history2 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.1 | 19.1 | 20.2 |
| | Base Number (BN) | | ASTM D2896 | | 8.4 | 7.8 | 7.3 |
| | (D (1) | | | | . | | |

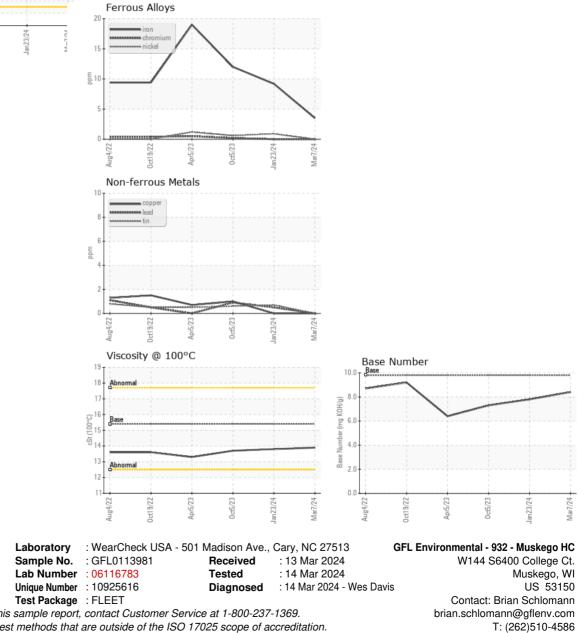


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| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | 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 PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.9 | 13.8 | 13.7 |
| GRAPHS | | | | | | |



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Certificate L2367 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)

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