

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 912069 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

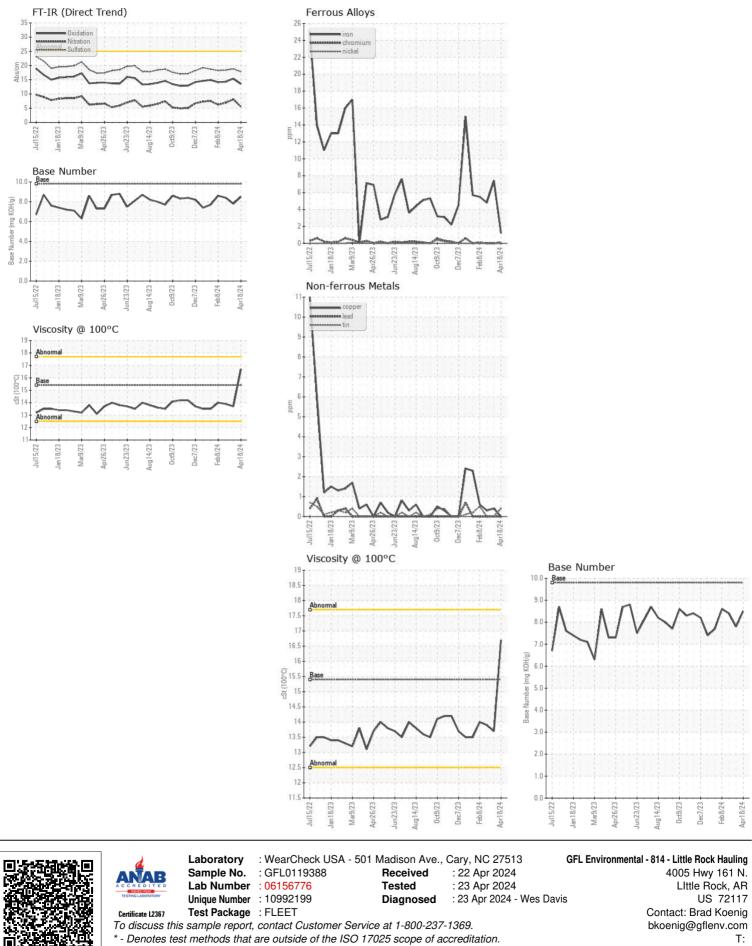
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|------------------|----------------------|----------------------------|-----------|--------------|-------------|-------------|
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | GFL0119388 | GFL0115380 | GFL0115350 |
| | Sample Date | | Client Info | | 18 Apr 2024 | 27 Mar 2024 | 01 Mar 2024 |
| | Machine Age | hrs | Client Info | | 6296 | 6451 | 6277 |
| | Oil Age | hrs | Client Info | | 6451 | 6277 | 141 |
| | Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR All component wear rates are normal. | Iron | ppm | ASTM D5185m | >100 | 1 | 7 | 5 |
| | Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| | Nickel | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >20 | 1 | 3 | 2 |
| | Lead | ppm | ASTM D5185m | >40 | 0 | 0 | 0 |
| | Copper | ppm | ASTM D5185m | >330 | 0 | <1 | <1 |
| | Tin | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | <25 | 3 | 2 | 2 |
| CONTAMINATION | Potassium | ppm | ASTM D5185m | | 1 | <1 | 0 |
| There is no indication of any contamination in the oil. | Fuel | ppiii | WC Method | | - <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | 20.2 | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | ~3 | 0.1 | 0.3 | 0.2 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 5.5 | 8.1 | 6.9 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 17.8 | 18.8 | 18.4 |
| | 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 | | *Visual | >0.2 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | | ASTM D5185m | | <1 | 2 | 2 |
| | Boron | ppm | ASTM D5185m | 0 | 18 | 5 | 6 |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 0 | | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 62 | 0 64 | 65 |
| | Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 936 | 1007 | 955 |
| | Calcium | ppm | ASTM D5185m | | 1074 | 1168 | 1100 |
| | Phosphorus | ppm | ASTM D5185m | | 1074 | 1061 | 970 |
| | Zinc | ppm | ASTM D5185m | | 1059 | 1288 | 1203 |
| | Sulfur | ppm | ASTM D5185m ASTM D5185m | | | 3534 | 3012 |
| | Oxidation | ppm | *ASTM D5185111 | | 3606 13.5 | 15.4 | 14.3 |
| | Base Number (BN) | Abs/.1mm mg KOH/g | | | 8.5 | 7.8 | 8.4 |
| | | nig KOH/g | ASTIVI D2090 | 9.0 | 6.5 | 1.0 | 0.4 |

Visc @ 100°C cSt ASTM D445 15.4

13.9

13.7

16.7



* - 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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