

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(P633828)

3758C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (40 QTS)

| | ×10) | | | | | | |
|--|------------------|----------|-------------|-----------|-------------|-------------|-------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | GFL0117986 | GFL0101792 | GFL0101743 |
| | Sample Date | | Client Info | | 22 May 2024 | 13 Mar 2024 | 23 Feb 2024 |
| | Machine Age | hrs | Client Info | | 16321 | 15720 | 15100 |
| | Oil Age | hrs | Client Info | | 601 | 600 | 600 |
| | Filter Age | hrs | Client Info | | 600 | 600 | 600 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR | Iron | ppm | ASTM D5185m | >50 | 13 | 27 | 20 |
| | Chromium | ppm | ASTM D5185m | >4 | 2 | 5 | 2 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | >2 | <1 | 1 | 0 |
| | Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >9 | 3 | 6 | 3 |
| | Lead | ppm | ASTM D5185m | >30 | 1 | 10 | 8 |
| | Copper | ppm | ASTM D5185m | >35 | <1 | 1 | <1 |
| | Tin | ppm | ASTM D5185m | >4 | <1 | 1 | 0 |
| | Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >+100 | 6 | 11 | 8 |
| There is no indication of any contamination in the oil. | Potassium | ppm | ASTM D5185m | >20 | 5 | 6 | 5 |
| | Water | | WC Method | >0.1 | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | | 0.1 | 0 | 0 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 8.6 | 12.6 | 12.5 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.2 | 27.5 | 26.9 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | LIGHT | LIGHT | 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 | >0.1 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 8 | 11 | 8 |
| The BN result indicates that there is suitable alkalinity remaining in the | Boron | ppm | ASTM D5185m | | 13 | 11 | 8 |
| oil. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 0 | 0 | 8 |
| | Molybdenum | ppm | ASTM D5185m | | 54 | 61 | 59 |
| | Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | Magnesium | ppm | ASTM D5185m | | 573 | 646 | 589 |
| | Calcium | ppm | ASTM D5185m | | 1646 | 1843 | 1635 |
| | Phosphorus | ppm | ASTM D5185m | | 731 | 872 | 826 |
| | Zinc | ppm | ASTM D5185m | 870 | 1015 | 1113 | 992 |

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 2040

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.1

Base Number (BN) mg KOH/g ASTM D2896 10.2

2651

23.2

3.6

14.7

2552

3.1

23.2

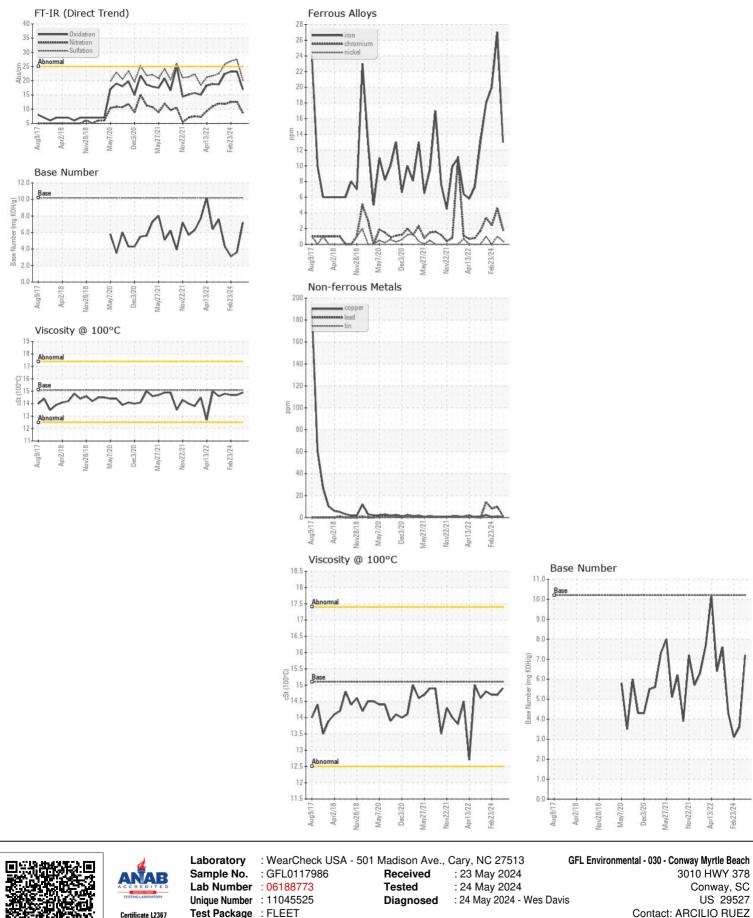
14.7

2578

16.9

7.2

14.9



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)

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2

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