

(P633849)

10765C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (30 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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WEAR

All component wear rates are normal.

CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

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

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|------------------|----------|-------------|-----------|-------------|-------------|-------------|
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Sample Number | | Client Info | | GFL0117987 | GFL0117971 | GFL0117965 |
| Sample Date | | Client Info | | 22 May 2024 | 09 May 2024 | 24 Apr 2024 |
| Machine Age | hrs | Client Info | | 18000 | 17692 | 17577 |
| Oil Age | hrs | Client Info | | 600 | 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 | | | | ABNORMAL | NORMAL | SEVERE |
| | | | | | | |
| Iron | ppm | ASTM D5185m | >50 | 8 | 37 | 14 |
| Chromium | ppm | ASTM D5185m | >4 | 1 | 6 | 1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 2 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 2 | 3 | 1 |
| Lead | ppm | ASTM D5185m | >30 | 2 | 14 | 8 |
| Copper | ppm | ASTM D5185m | >35 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >+100 | 6 | 11 | 10 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 6 | 6 78 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | | | ▲ 0.10 |
| Soot % | % | *ASTM D7844 | | 0.1 | 0 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.4 | 12.6 | 12.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.5 | 26.5 | 25.9 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | 🔺 MODER | 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 | >0.1 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | 5 | 8 | <u> </u> |
| Boron | ppm | ASTM D5185m | 50 | 45 | 4 | 2 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 49 | 62 | 57 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 560 | 566 | 568 | 487 |
| Calcium | ppm | ASTM D5185m | 1510 | 1518 | 1656 | 1450 |
| Phosphorus | ppm | ASTM D5185m | 780 | 774 | 755 | 657 |
| Zinc | ppm | ASTM D5185m | 870 | 950 | 929 | 872 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2694 | 2363 | 2758 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.0 | 21.9 | 22.8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.2 | 8.4 | 3.2 | 3.0 |
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.4 | 13.7 | 14.1 |
| | | | | | | |

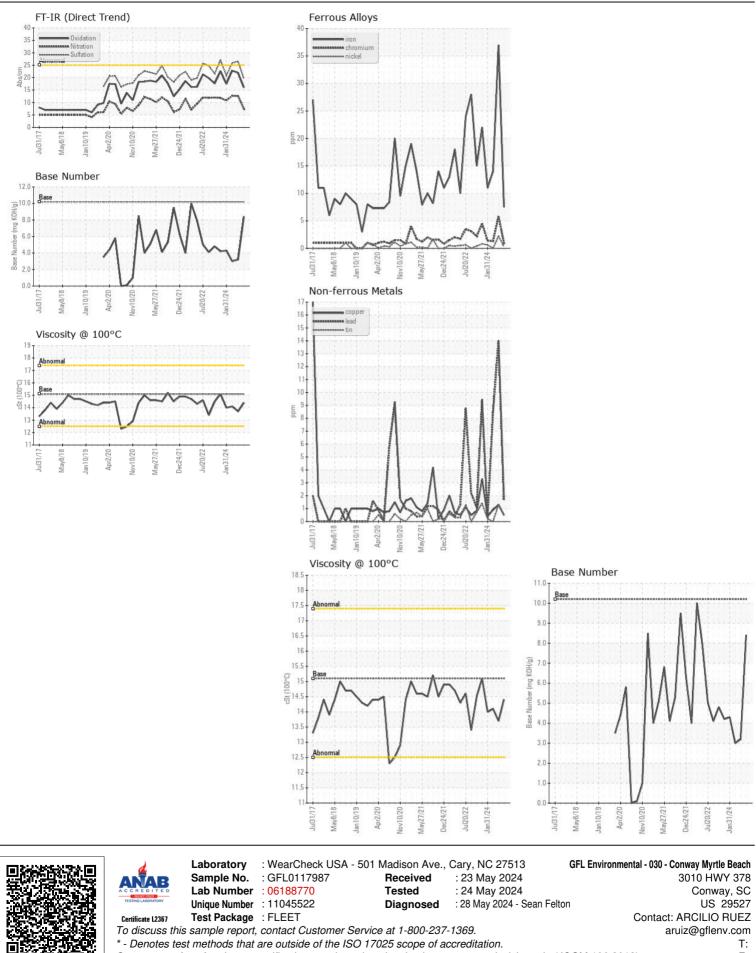
WEAR

CONTAMINATION

FLUID CONDITION

NORMAL

ABNORMAL NORMAL



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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