

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Component **Natural Gas Engine**

PETRO CANADA DURON GEO LD 15W40 (30 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

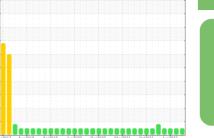
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

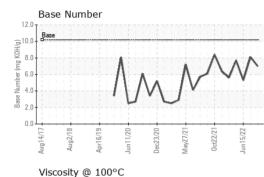


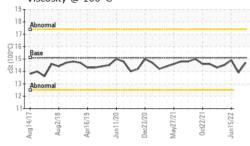


| SAMPLE INFORM | MATION | method | limit/base | current | history 1 | history 2 |
|---------------|----------|-------------|------------|-----------------|-------------|-------------------|
| Sample Number | | Client Info | | GFL0070772 | GFL0058564 | GFL0042915 |
| Sample Date | | Client Info | | 22 Jun 2023 | 06 Dec 2022 | 15 Jun 2022 |
| Machine Age | hrs | Client Info | | 13235 | 12387 | 11968 |
| Oil Age | hrs | Client Info | | 600 | 600 | 600 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | S | method | limit/base | current | history 1 | history 2 |
| Iron | ppm | ASTM D5185m | >50 | 13 | 16 | 9 |
| Chromium | ppm | ASTM D5185m | >4 | 2 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >9 | 7 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >30 | 3 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >35 | 2 | <1 | 2 |
| Tin | ppm | ASTM D5185m | >4 | 2 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history 1 | history 2 |
| Boron | ppm | ASTM D5185m | 50 | 8 | 3 | 10 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 64 | 59 | 54 |
| Manganese | ppm | ASTM D5185m | 0 | 2 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 560 | 968 | 918 | 526 |
| Calcium | ppm | ASTM D5185m | 1510 | 1259 | 1065 | 1587 |
| Phosphorus | ppm | ASTM D5185m | 780 | 1021 | 1012 | 723 |
| Zinc | ppm | ASTM D5185m | 870 | 1277 | 1248 | 1009 |
| Sulfur | ppm | ASTM D5185m | 2040 | 3634 | 3564 | 2358 |
| CONTAMINAN | TS | method | limit/base | current | history 1 | history 2 |
| Silicon | ppm | ASTM D5185m | >+100 | 12 | 4 | 6 |
| Sodium | ppm | ASTM D5185m | | 10 | 4 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | <1 | 2 |
| INFRA-RED | | method | limit/base | current | history 1 | history 2 |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.4 | 9.9 | 10.6 |
| Sulfation | | *AOTM DZ445 | . 20 | 40.0 | 10.0 | 00.0 |
| oundion | Abs/.1mm | *ASTM D7415 | >30 | 18.9 | 19.9 | 20.2 |
| FLUID DEGRAD | | method | limit/base | 18.9 current | history 1 | 20.2 history 2 |
| | | | | | | |

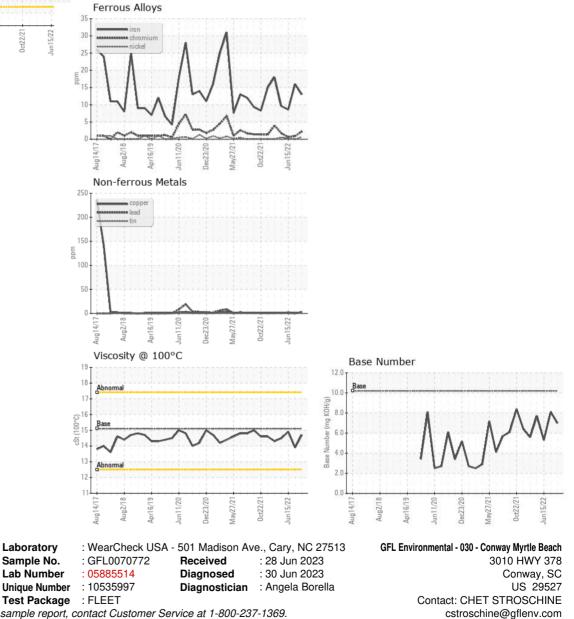


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| VISUAL | | method | limit/base | current | history 1 | history 2 |
|------------------|--------|-----------|------------|---------|-----------|-----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | 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 | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history 1 | history 2 |
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.7 | 13.9 | 14.9 |
| GRAPHS | | | | | | |



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)

Certificate L2367

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