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|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
946021-260304
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0092124 | GFL0092007 | GFL0084625 |
| Sample Date | | Client Info | | 26 Jan 2024 | 28 Nov 2023 | 09 Nov 2023 |
| Machine Age | hrs | Client Info | | 89679 | 89380 | 89258 |
| Oil Age | hrs | Client Info | | 20000 | 600 | 20000 |
| Filter Age | hrs | Client Info | | 20000 | 600 | 20000 |
| 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 | >50 | 21 | 17 | 20 |
| Chromium | ppm | ASTM D5185m | >4 | 2 | 3 | 1 |
| Nickel | ppm | ASTM D5185m | >2 | 1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 4 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >30 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >35 | 2 | 3 | 0 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

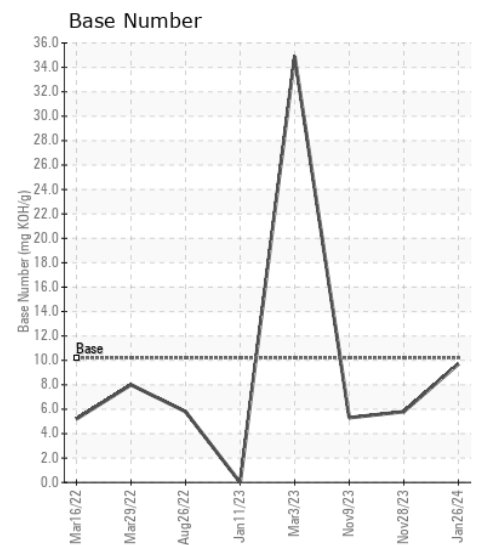
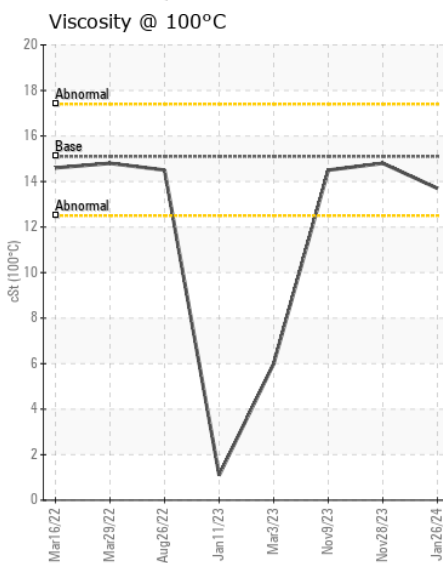
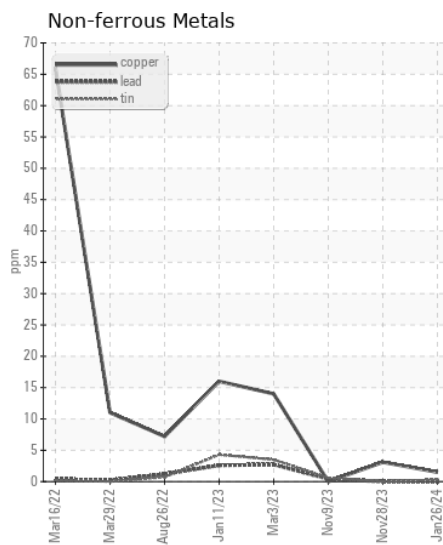
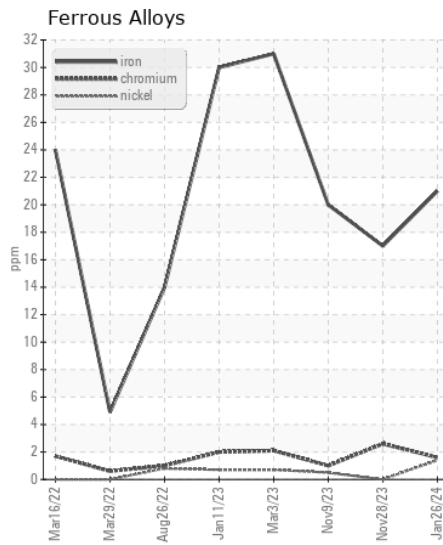
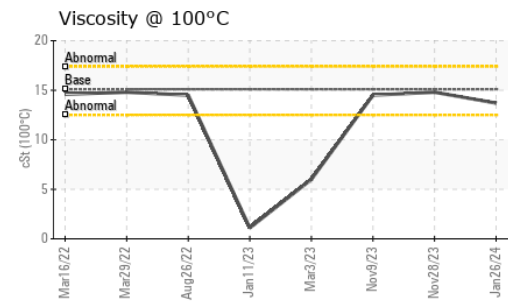
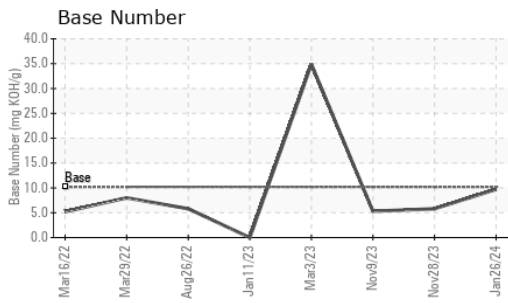
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >+100 | 9 | 10 | 11 |
| Potassium | ppm | ASTM D5185m | >20 | 22 | 12 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | | 0.1 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.9 | 11.1 | 13.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.1 | 21.4 | 24.9 |
| 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 |

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.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 44 | 36 | 5 |
| Boron | ppm | ASTM D5185m | 50 | 30 | 11 | 16 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 55 | 48 | 61 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 560 | 568 | 557 | 709 |
| Calcium | ppm | ASTM D5185m | 1510 | 1525 | 1459 | 1894 |
| Phosphorus | ppm | ASTM D5185m | 780 | 785 | 739 | 929 |
| Zinc | ppm | ASTM D5185m | 870 | 957 | 882 | 1183 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2498 | 2197 | 3067 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.1 | 17.4 | 19.8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.2 | 9.7 | 5.8 | 5.3 |
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 13.7 | 14.8 | 14.5 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0092124 **Received** : 30 Jan 2024
Lab Number : 06074435 **Diagnosed** : 02 Feb 2024
Unique Number : 10856526 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 856 - Houston South
 8515 Highway 6 South
 Houston, TX
 US 77083
 Contact: Apolinar Zacarias
 pzacariascano@gflenv.com

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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F: