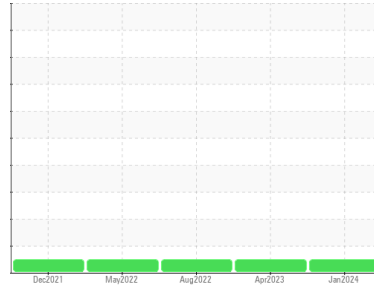




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
944034-260289

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

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 INFORMATION

| method | limit/base | current | history1 | history2 | |
|---------------|-------------|--------------------|--------------|-------------|--------|
| Sample Number | Client Info | GFL0103949 | GFL0074162 | GFL0054424 | |
| Sample Date | Client Info | 03 Jan 2024 | 18 Apr 2023 | 31 Aug 2022 | |
| Machine Age | hrs | Client Info | 15728 | 14703 | 144619 |
| Oil Age | hrs | Client Info | 15728 | 14703 | 0 |
| Oil Changed | Client Info | Changed | Changed | Changed | |
| Sample Status | | NORMAL | NORMAL | NORMAL | |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.1 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|-----------------|--------------|----------|----|
| Iron | ppm | ASTM D5185m >50 | 17 | 18 | 10 |
| Chromium | ppm | ASTM D5185m >4 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m >9 | 3 | 5 | 4 |
| Lead | ppm | ASTM D5185m >30 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m >35 | <1 | 2 | 1 |
| Tin | ppm | ASTM D5185m >4 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | <1 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|------------------|-------------|----------|------|
| Boron | ppm | ASTM D5185m 50 | 16 | 23 | 12 |
| Barium | ppm | ASTM D5185m 5 | 0 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m 50 | 53 | 49 | 65 |
| Manganese | ppm | ASTM D5185m 0 | 0 | 3 | <1 |
| Magnesium | ppm | ASTM D5185m 560 | 599 | 790 | 704 |
| Calcium | ppm | ASTM D5185m 1510 | 1557 | 1278 | 1874 |
| Phosphorus | ppm | ASTM D5185m 780 | 759 | 730 | 942 |
| Zinc | ppm | ASTM D5185m 870 | 975 | 912 | 1181 |
| Sulfur | ppm | ASTM D5185m 2040 | 2646 | 2784 | 2978 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|-------------------|----------|----------|----|
| Silicon | ppm | ASTM D5185m >+100 | 5 | 27 | 5 |
| Sodium | ppm | ASTM D5185m | 6 | 4 | 10 |
| Potassium | ppm | ASTM D5185m >20 | 2 | 1 | 2 |

INFRA-RED

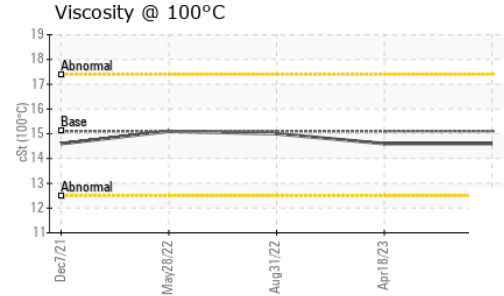
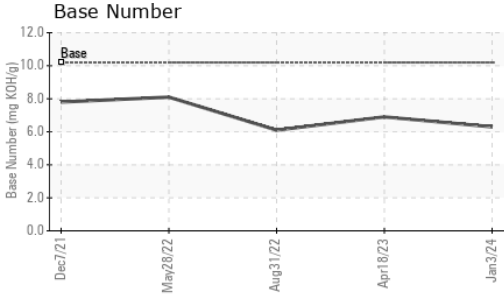
| method | limit/base | current | history1 | history2 | |
|-----------|------------|-----------------|-------------|----------|------|
| Soot % | % | *ASTM D7844 | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 >20 | 9.6 | 9.0 | 11.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 19.8 | 18.5 | 21.3 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|-----------------|-------------|----------|------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 16.9 | 17.5 | 18.8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 10.2 | 6.3 | 6.9 | 6.1 |



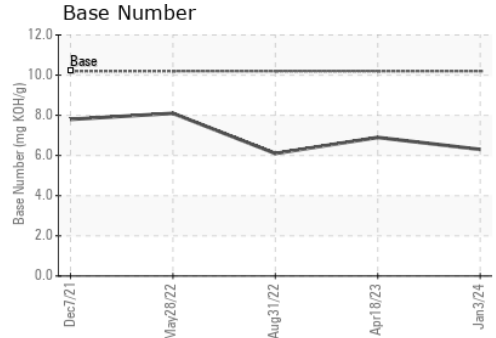
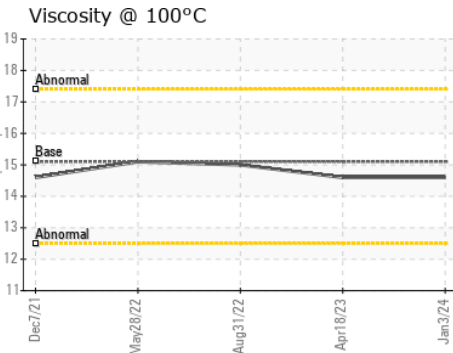
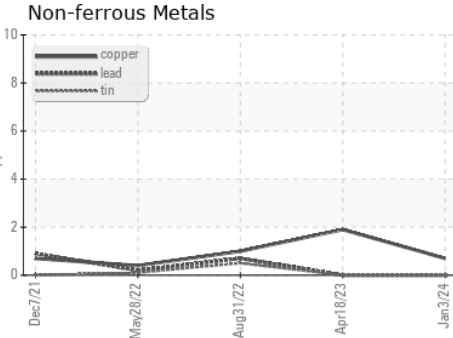
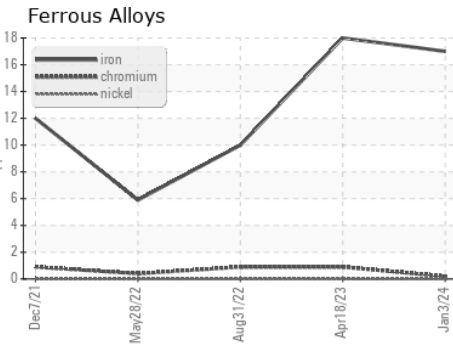
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.6 | 14.6 | 15.0 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0103949 **Received** : 10 Jan 2024
Lab Number : 06057259 **Diagnosed** : 11 Jan 2024
Unique Number : 10823208 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 865 - East Mount Hauling
 7213 East Mount Houston Road
 Houston, TX
 US 77050
 Contact: Saul Castillo
 saul.castillo@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)

T:
F: