



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



Machine Id
833068
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0118936 | GFL0118951 | GFL0094386 |
| Sample Date | | Client Info | | 24 Jun 2024 | 05 Jun 2024 | 15 Dec 2023 |
| Machine Age | hrs | Client Info | | 2138 | 1999 | 1098 |
| Oil Age | hrs | Client Info | | 1200 | 1999 | 0 |
| Filter Age | hrs | Client Info | | 1200 | 1999 | 0 |
| 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 D5185(m) | >50 | 7 | 18 | 52 |
| Chromium | ppm | ASTM D5185(m) | >4 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | <1 | 1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >9 | 1 | 2 | 5 |
| Lead | ppm | ASTM D5185(m) | >30 | 0 | <1 | 2 |
| Copper | ppm | ASTM D5185(m) | >35 | <1 | 4 | 15 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | --- |

CONTAMINATION

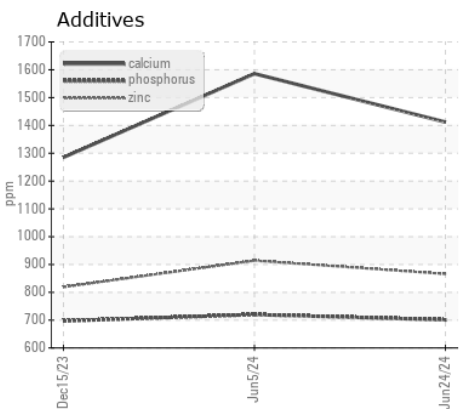
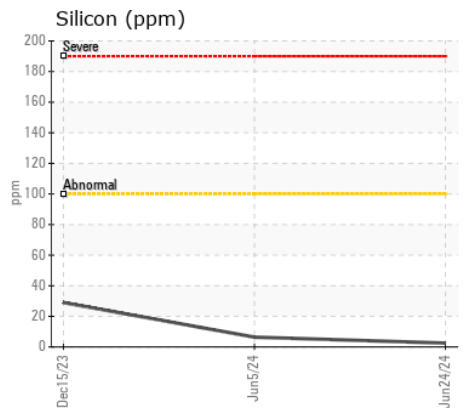
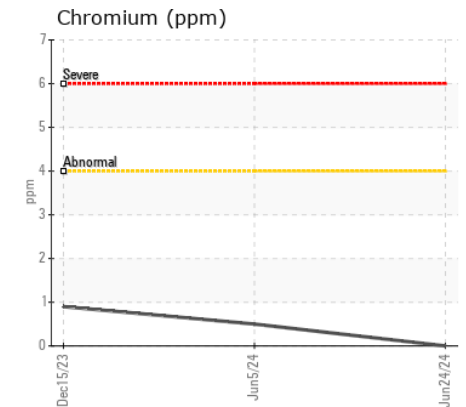
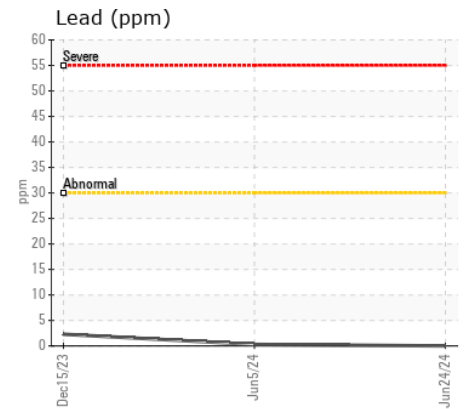
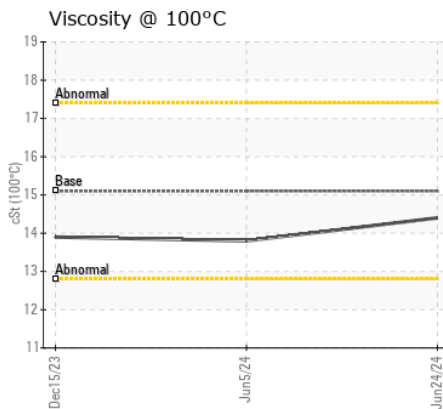
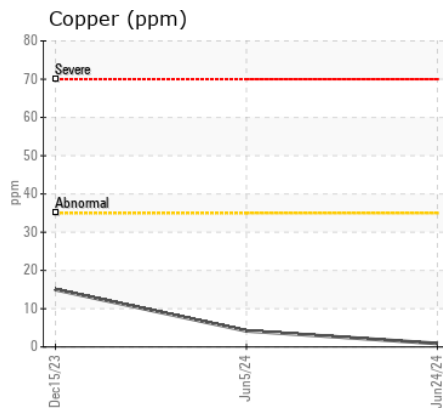
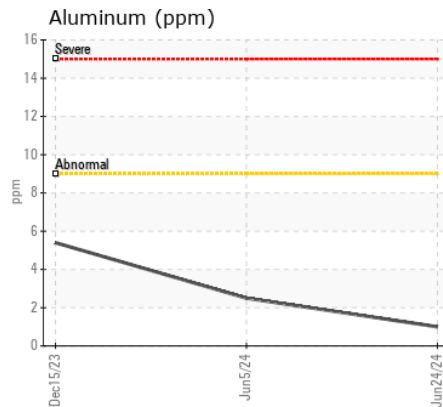
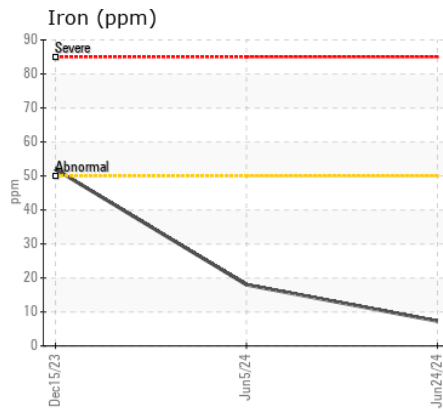
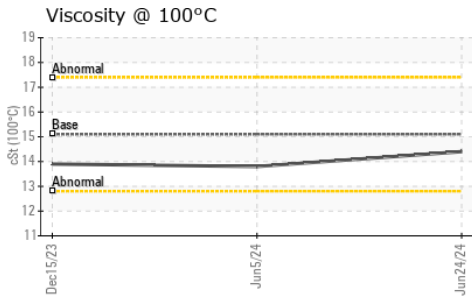
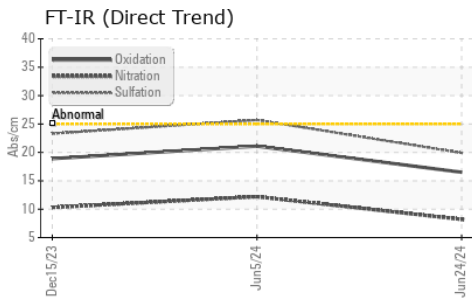
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >+100 | 2 | 6 | 29 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.2 | 12.2 | 10.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.9 | 25.7 | 23.3 |
| 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 | NORML |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|--------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 2 | 4 | 4 |
| Boron | ppm | ASTM D5185(m) | 50 | 23 | 5 | 8 |
| Barium | ppm | ASTM D5185(m) | 5 | 0 | <1 | 3 |
| Molybdenum | ppm | ASTM D5185(m) | 50 | 49 | 60 | 94 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | 2 | 12 |
| Magnesium | ppm | ASTM D5185(m) | 560 | 545 | 589 | 650 |
| Calcium | ppm | ASTM D5185(m) | 1510 | 1412 | 1586 | 1285 |
| Phosphorus | ppm | ASTM D5185(m) | 780 | 701 | 720 | 697 |
| Zinc | ppm | ASTM D5185(m) | 870 | 866 | 914 | 819 |
| Sulfur | ppm | ASTM D5185(m) | 2040 | 1911 | 1973 | 2076 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 16.5 | 21.1 | 18.9 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.1 | 14.4 | 13.8 | 13.9 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118936 **Received** : 25 Jun 2024
Lab Number : 02644014 **Tested** : 25 Jun 2024
Unique Number : 5801553 **Diagnosed** : 25 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

GFL Environmental - 222 - Sandhill
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 CA L9W 3X5
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 T: (519)940-4167
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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.