



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



Machine Id
401157
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0100575 | GFL0100599 | GFL0077036 |
| Sample Date | | Client Info | | 31 May 2024 | 12 Feb 2024 | 05 Jul 2023 |
| Machine Age | hrs | Client Info | | 12750 | 12160 | 10709 |
| Oil Age | hrs | Client Info | | 0 | 7924 | 0 |
| Filter Age | hrs | Client Info | | 0 | 7924 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|-------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >65 | 14 | 16 | 21 |
| Chromium | ppm | ASTM D5185(m) | >5 | 1 | <1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >35 | 7 | 8 | 6 |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >180 | 2 | 2 | 4 |
| Tin | ppm | ASTM D5185(m) | >8 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |

CONTAMINATION

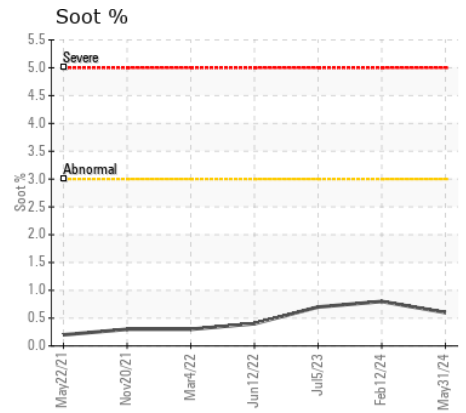
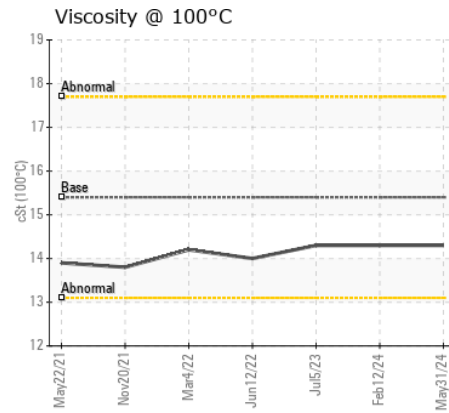
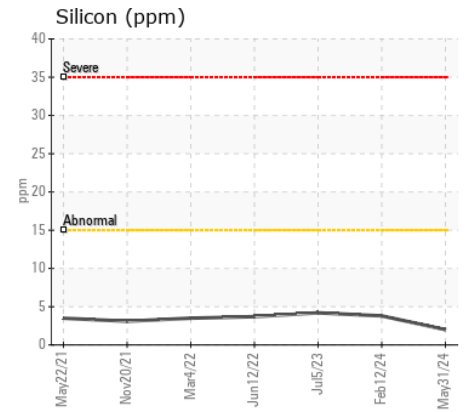
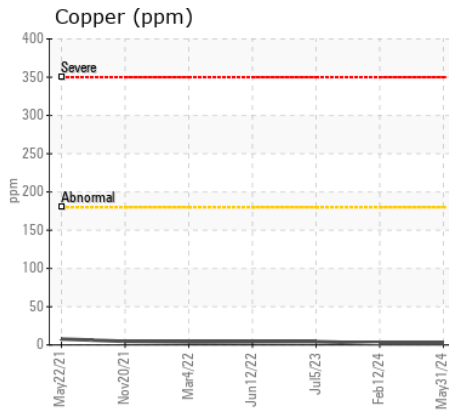
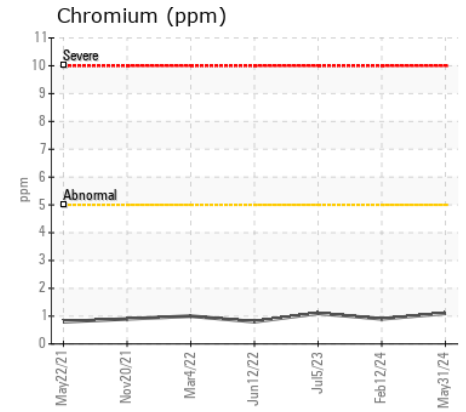
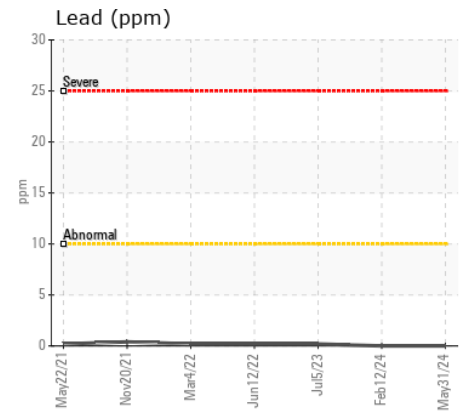
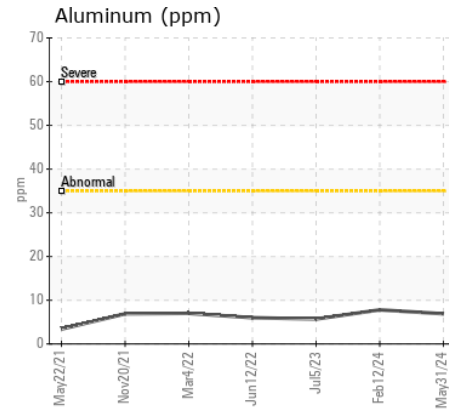
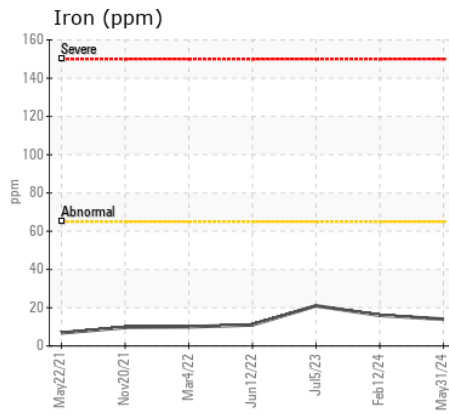
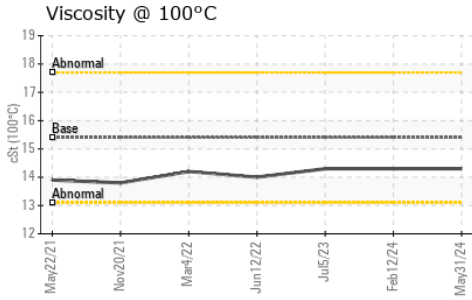
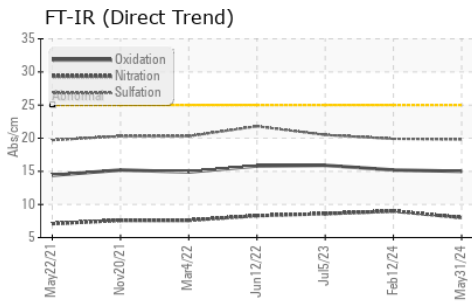
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >15 | 2 | 4 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 3 | 3 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.6 | 0.8 | 0.7 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.0 | 9.0 | 8.6 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.8 | 19.9 | 20.5 |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 2 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | 0 | 2 | 2 | 2 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 59 | 59 | 61 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 973 | 961 | 1005 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1059 | 1084 | 1070 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 967 | 1007 | 1057 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1172 | 1175 | 1217 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2398 | 2584 | 2380 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 15.0 | 15.2 | 15.9 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 14.3 | 14.3 | 14.3 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100575 **Received** : 04 Jun 2024
Lab Number : 02639554 **Tested** : 05 Jun 2024
Unique Number : 5788716 **Diagnosed** : 05 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.