



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



Machine Id
801053
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (19 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0111737 | GFL0107144 | GFL0094181 |
| Sample Date | | Client Info | | 26 Mar 2024 | 08 Jan 2024 | 24 Oct 2023 |
| Machine Age | hrs | Client Info | | 8599 | 8075 | 117595 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| 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) | >80 | 21 | 23 | 33 |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >30 | 2 | 3 | 3 |
| Lead | ppm | ASTM D5185(m) | >30 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >150 | <1 | 1 | 2 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

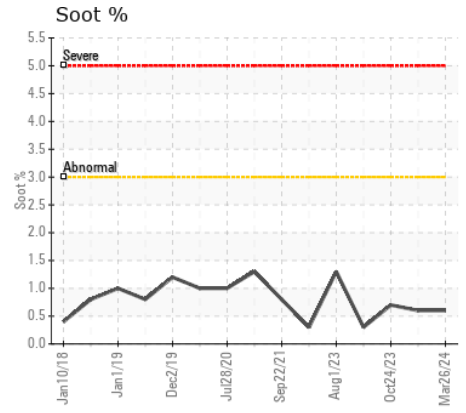
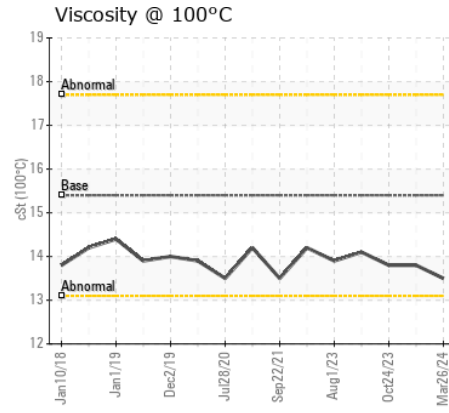
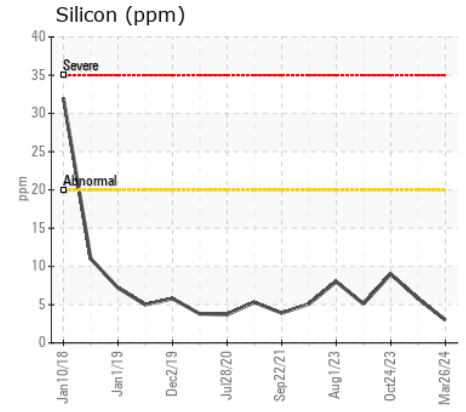
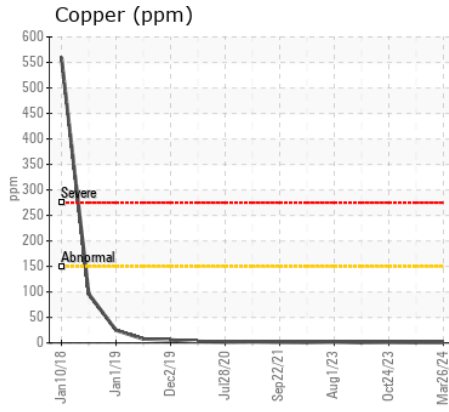
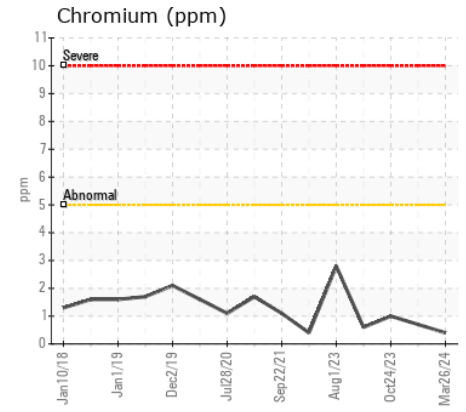
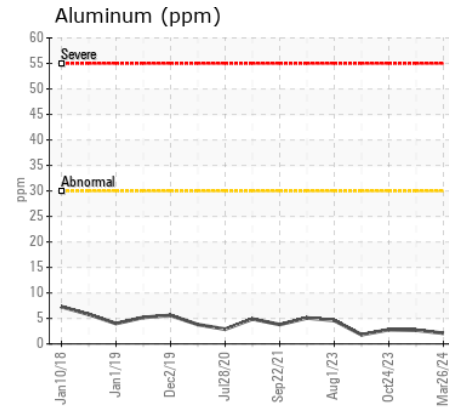
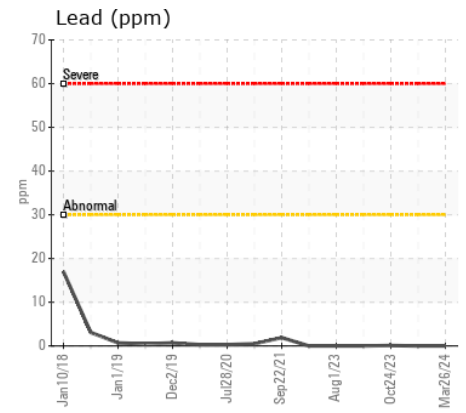
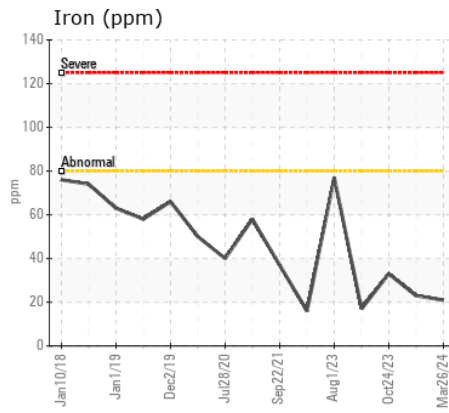
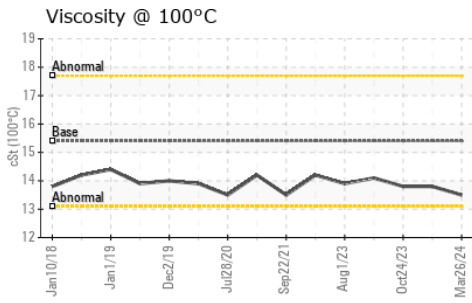
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >20 | 3 | 6 | 9 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 2 | 1 |
| Fuel | | WC Method | >5 | <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 | 0.6 | 0.7 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.7 | 10.3 | 11.5 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.4 | 21.4 | 21.8 |
| 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) | | 8 | 8 | 8 |
| Boron | ppm | ASTM D5185(m) | 0 | 8 | 16 | 6 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 58 | 61 | 60 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 916 | 892 | 897 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1000 | 1065 | 1026 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 932 | 985 | 958 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1141 | 1169 | 1136 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2313 | 2536 | 2352 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 16.6 | 17.7 | 19.0 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 13.5 | 13.8 | 13.8 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0111737
Lab Number : 02625114
Unique Number : 5750233
Test Package : MOB 1

GFL Environmental - 217 - Aurora
 14131 BAYVIEW AVE, AURORA YARD
 AURORA, ON
 CA L4G 0K6
 Contact: Mike Havens
 MHavens@gflenv.com

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.

T:
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