

Machine Id
7760
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0125814 | GFL0107862 | GFL0087427 |
| Sample Date | | Client Info | | 11 Jun 2024 | 21 Dec 2023 | 27 Jun 2023 |
| Machine Age | hrs | Client Info | | 29277 | 141343 | 141343 |
| 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 | Changed |
| Sample Status | | | | NORMAL | ATTENTION | ATTENTION |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >165 | 11 | 8 | 11 |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 1 | 1 | 1 |
| Lead | ppm | ASTM D5185(m) | >150 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >90 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

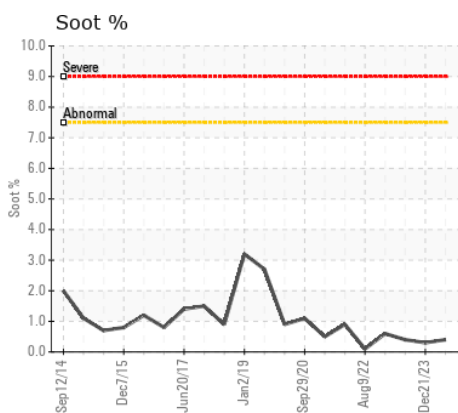
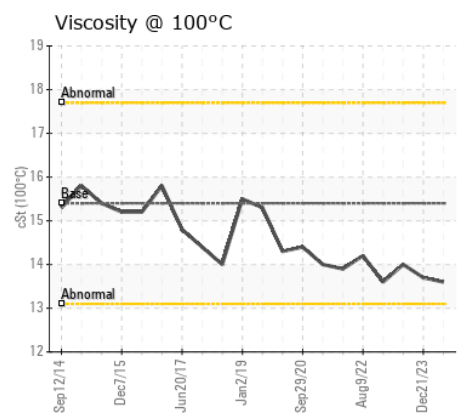
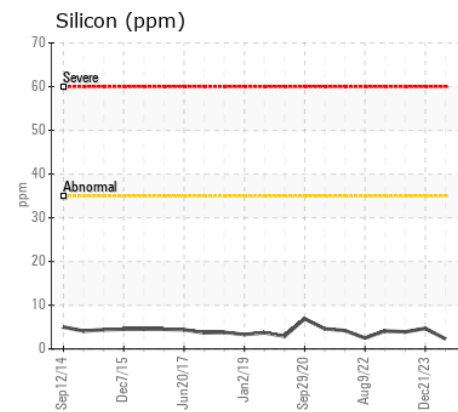
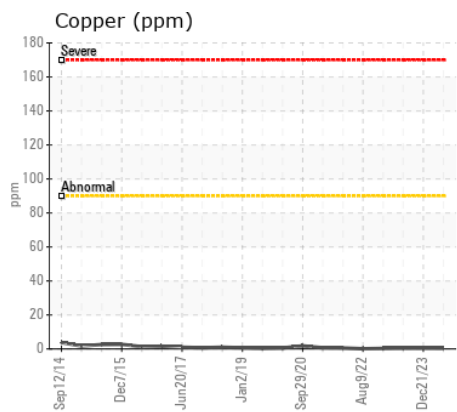
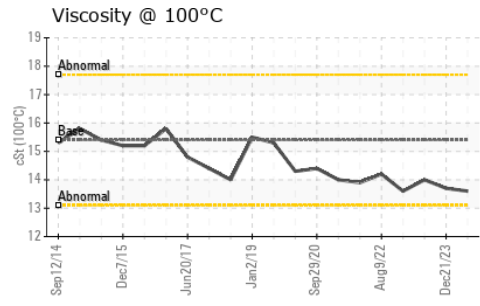
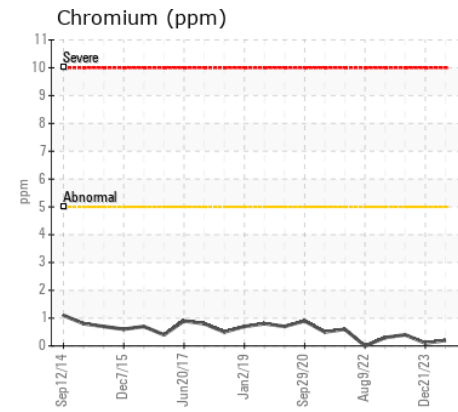
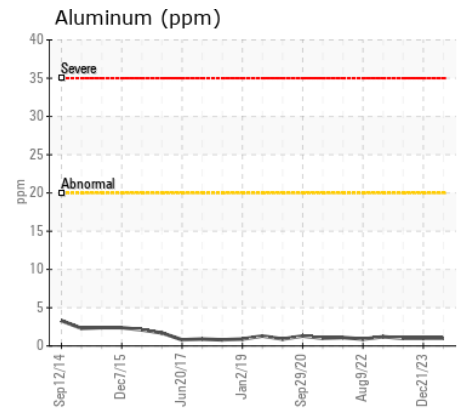
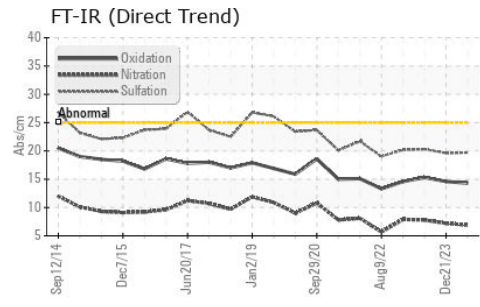
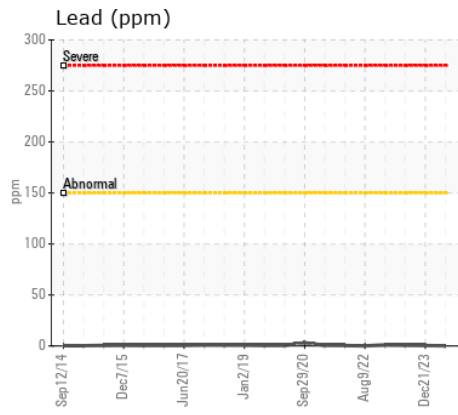
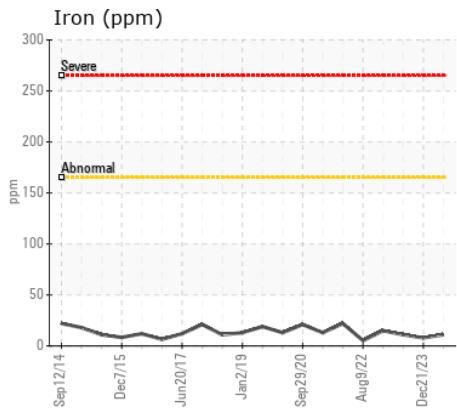
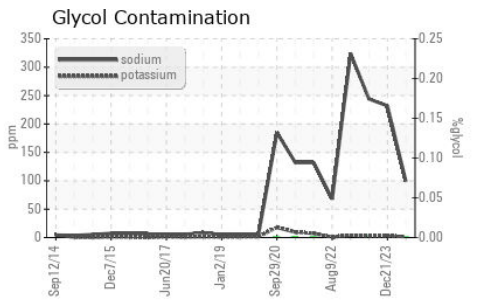
Test for glycol is negative. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >35 | 2 | 5 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 2 | 3 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | % | ASTM D7922* | | 0.0 | 0.0 | 0.0 |
| Soot % | % | ASTM D7844* | >7.5 | 0.4 | 0.3 | 0.4 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.9 | 7.2 | 7.8 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 19.7 | 19.6 | 20.3 |
| 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) | | 99 | ● 232 | ● 244 |
| Boron | ppm | ASTM D5185(m) | 0 | 4 | 2 | 2 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 62 | 59 | 60 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 1006 | 970 | 987 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1074 | 1073 | 1066 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1025 | 1010 | 1057 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1230 | 1188 | 1218 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2645 | 2699 | 2565 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.3 | 14.6 | 15.3 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 13.6 | 13.7 | 14.0 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0125814
Lab Number : 02641573
Unique Number : 5799112
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 225 - COT(D2)
 20 Brydon Drive
 Etobicoke, ON
 CA M9W 5R6
 Contact: Rick Philip
 rphilip@gflenv.com
 T: (416)745-8080
 F:

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.