



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



Machine Id
401001
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0126210 | GFL0113266 | GFL0097563 |
| Sample Date | | Client Info | | 02 Jul 2024 | 07 May 2024 | 03 Nov 2023 |
| Machine Age | hrs | Client Info | | 20446 | 384605 | 18767 |
| Oil Age | hrs | Client Info | | 1094 | 384605 | 612 |
| Filter Age | hrs | Client Info | | 1094 | 384605 | 612 |
| Oil Changed | | Client Info | | Changed | N/A | 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) | >120 | 6 | 7 | 6 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 1 | 1 | 1 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | 2 | 2 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

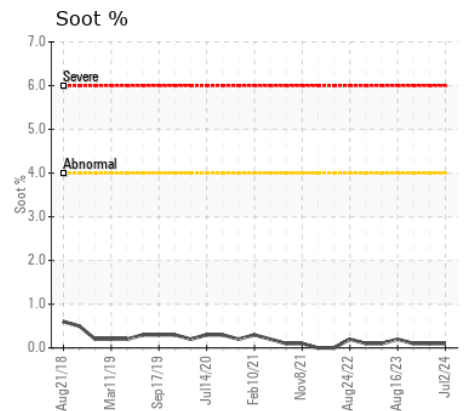
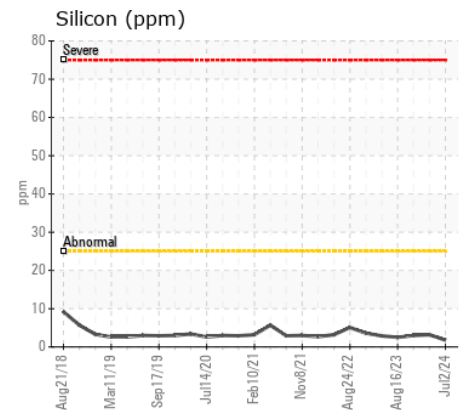
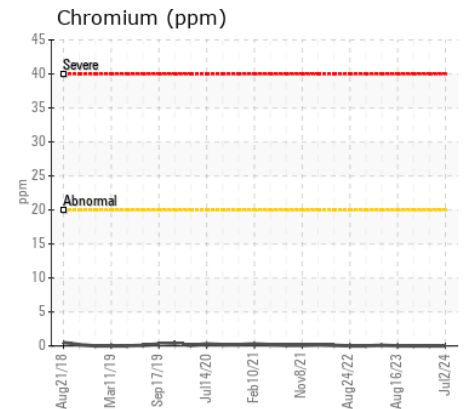
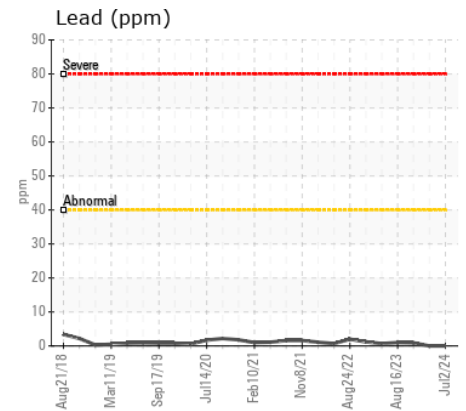
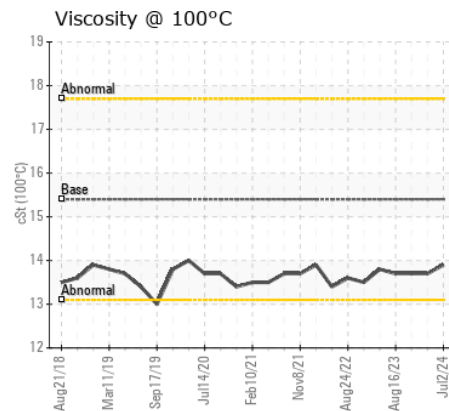
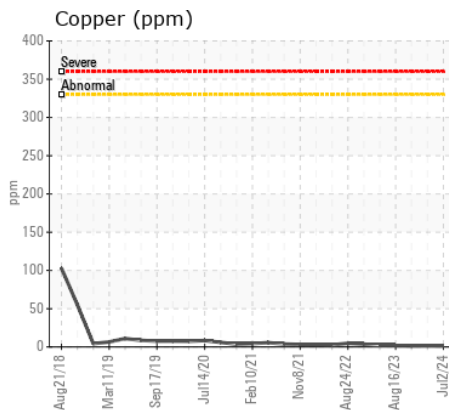
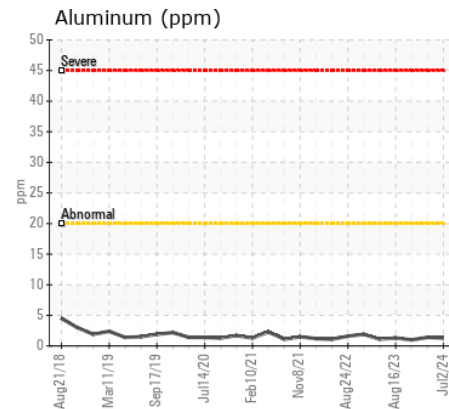
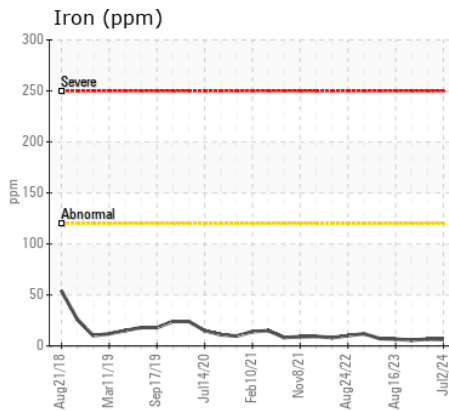
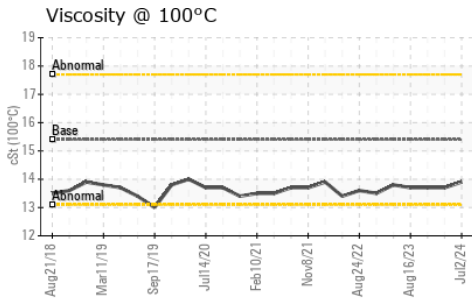
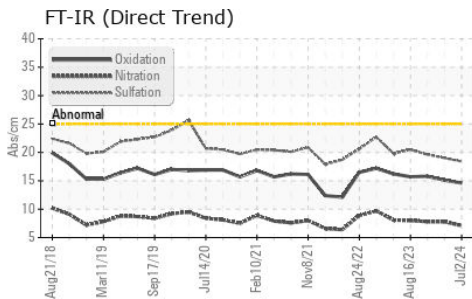
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 2 | 3 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 1 | <1 |
| 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* | >4 | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.1 | 7.8 | 7.8 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.4 | 19.0 | 19.6 |
| 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 | 3 | 3 |
| Boron | ppm | ASTM D5185(m) | 0 | 4 | 3 | 5 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 59 | 58 | 61 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 939 | 965 | 959 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1025 | 1036 | 1058 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1001 | 985 | 998 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1178 | 1167 | 1200 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2536 | 2463 | 2503 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.6 | 15.1 | 15.8 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 13.9 | 13.7 | 13.7 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0126210
Lab Number : 02645838
Unique Number : 5803377
Test Package : MOB 1

Received : 05 Jul 2024
Tested : 05 Jul 2024
Diagnosed : 05 Jul 2024 - Wes Davis

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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.