



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

Machine Id
401190
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0113288 | GFL0097522 | GFL0097568 |
| Sample Date | | Client Info | | 01 May 2024 | 30 Nov 2023 | 29 Sep 2023 |
| Machine Age | hrs | Client Info | | 25511 | 25511 | 0 |
| Oil Age | hrs | Client Info | | 25511 | 581 | 0 |
| Filter Age | hrs | Client Info | | 25511 | 581 | 0 |
| Oil Changed | | Client Info | | N/A | Changed | N/A |
| Filter Changed | | Client Info | | N/A | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >100 | 18 | 19 | 10 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 1 | 2 | 2 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 1 | <1 |
| Copper | ppm | ASTM D5185(m) | >330 | 1 | 6 | 2 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

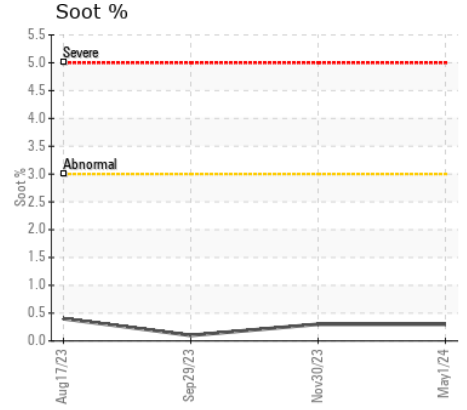
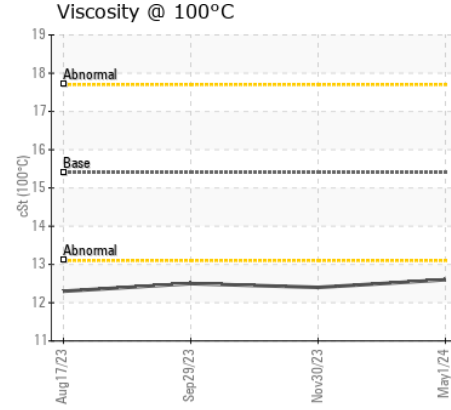
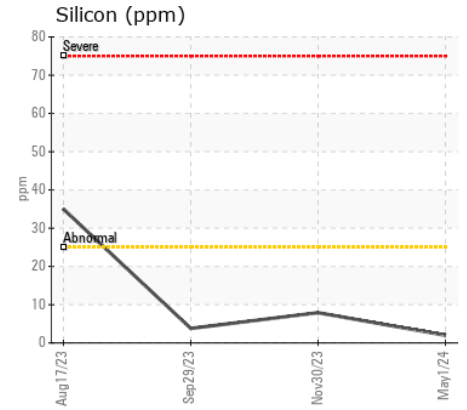
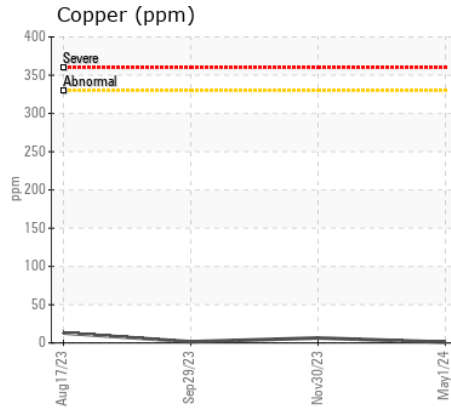
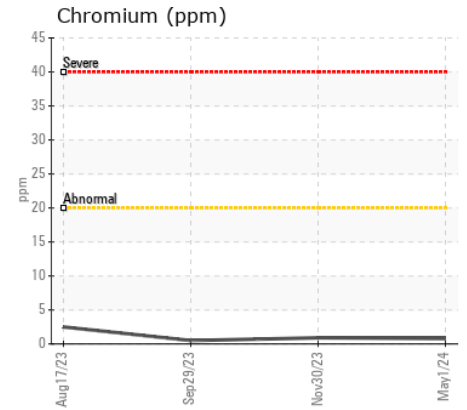
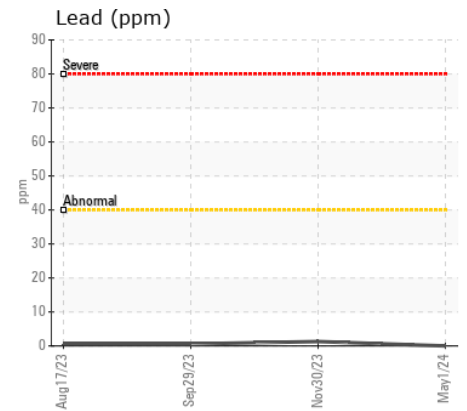
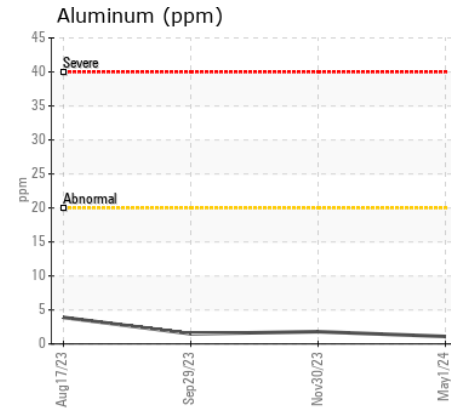
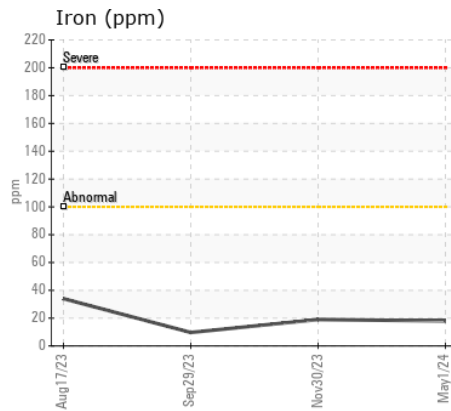
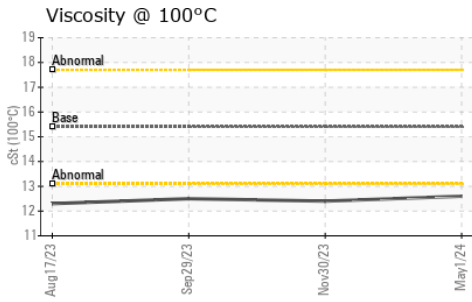
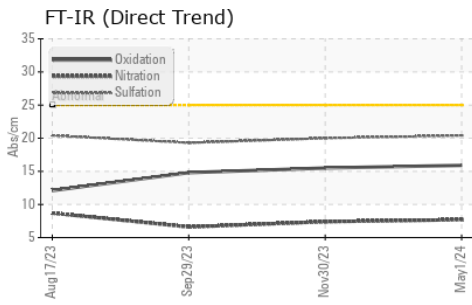
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 2 | 8 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | <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 | 0.3 | 0.3 | 0.1 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.7 | 7.4 | 6.6 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.4 | 20.0 | 19.3 |
| 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) | | 1 | 2 | 1 |
| Boron | ppm | ASTM D5185(m) | 0 | 5 | 8 | 4 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 61 | 57 | 60 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 1005 | 904 | 976 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1097 | 1201 | 1100 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1037 | 1006 | 1054 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1227 | 1204 | 1193 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2625 | 2923 | 2868 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 15.9 | 15.5 | 14.8 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 12.6 | 12.4 | 12.5 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113288 **Received** : 15 May 2024
Lab Number : 02635542 **Tested** : 15 May 2024
Unique Number : 5776695 **Diagnosed** : 15 May 2024 - Wes Davis
Test Package : MOB 1

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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.