



OIL ANALYSIS REPORT

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

Machine Id
INTERNATIONAL 475
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | PC0081926 | PC0046927 | PC0036808 |
| Sample Date | | Client Info | | 22 Feb 2024 | 02 Oct 2021 | 01 Mar 2021 |
| Machine Age | kms | Client Info | | 1878785 | 836567 | 731695 |
| Oil Age | kms | Client Info | | 136628 | 104872 | 89501 |
| Filter Age | kms | Client Info | | 136628 | 104872 | 89501 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|----|----|----|
| Iron | ppm | ASTM D5185(m) | >100 | 81 | 75 | 43 |
| Chromium | ppm | ASTM D5185(m) | >20 | 7 | 4 | 3 |
| Nickel | ppm | ASTM D5185(m) | >4 | 3 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 8 | 4 | 3 |
| Lead | ppm | ASTM D5185(m) | >40 | <1 | 2 | 2 |
| Copper | ppm | ASTM D5185(m) | >330 | 7 | 3 | 2 |
| Tin | ppm | ASTM D5185(m) | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

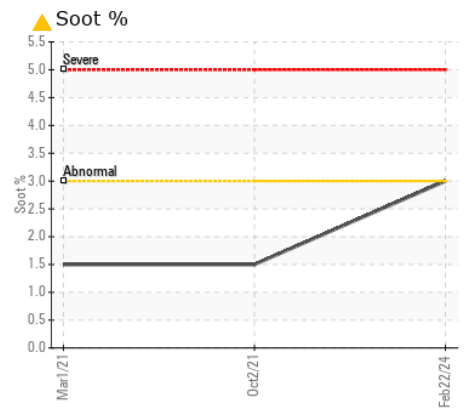
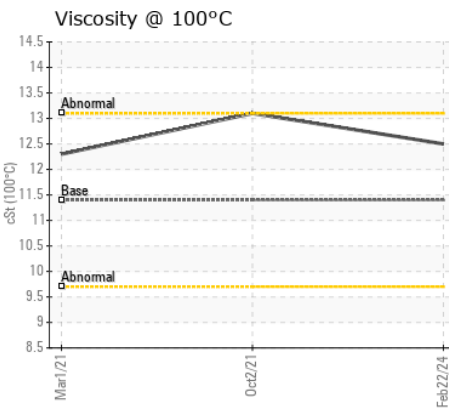
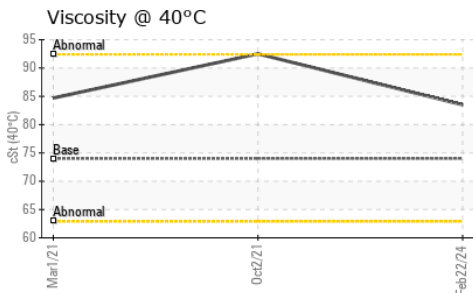
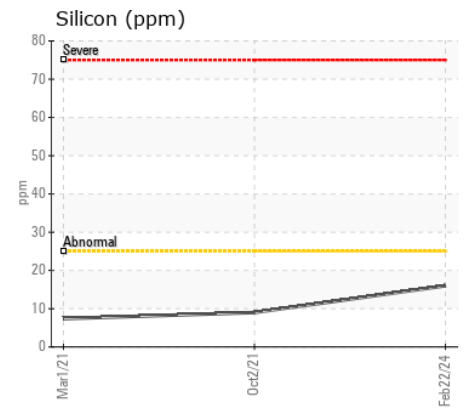
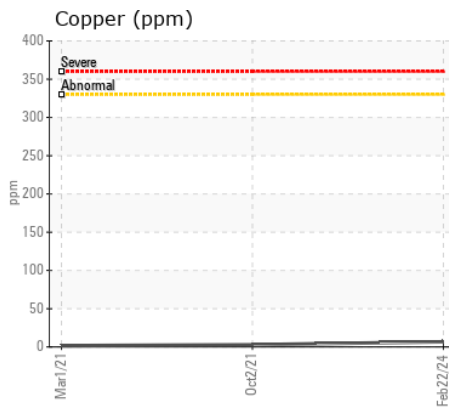
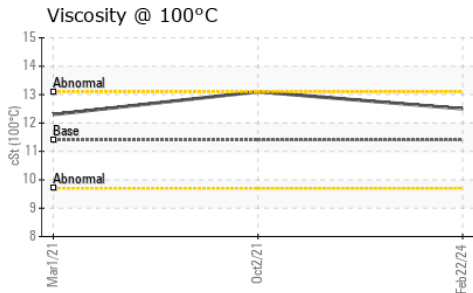
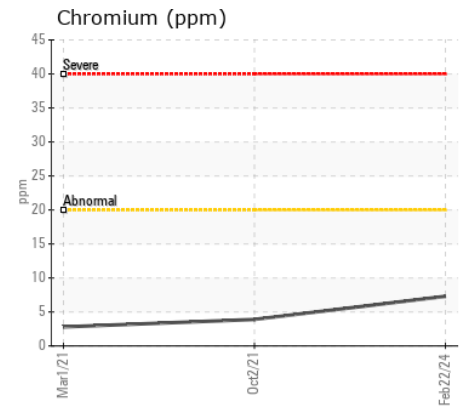
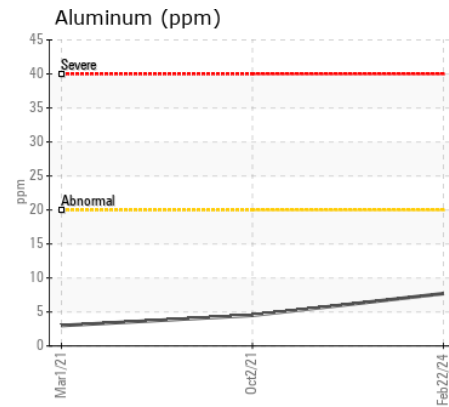
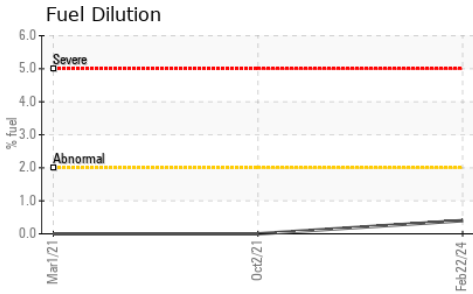
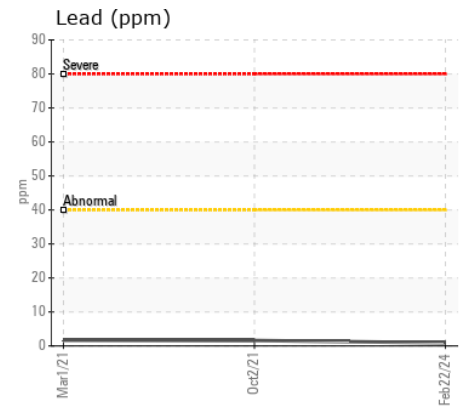
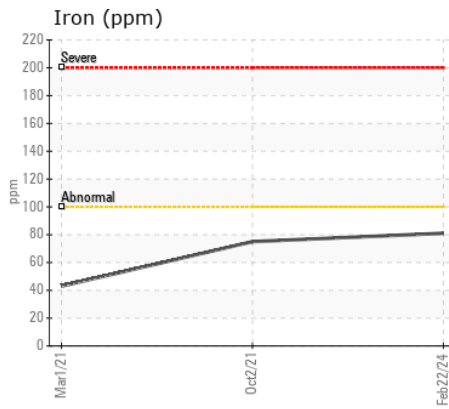
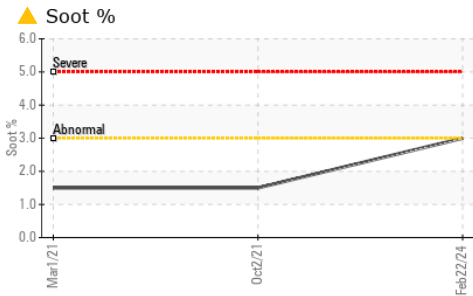
Fuel content negligible. Light concentration of carbon/soot present in the oil.

| | | | | | | |
|------------------|----------|---------------|------|------|--------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 16 | 9 | 7 |
| Potassium | ppm | ASTM D5185(m) | >20 | 4 | 70 | 2 |
| Fuel | % | ASTM D7593* | >2.0 | 0.4 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | 0.0 | NEG |
| Soot % | % | ASTM D7844* | >3 | ▲ 3 | 1.5 | 1.5 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 13.5 | 14.5 | 12.1 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 29.7 | ▲ 31.7 | 27.7 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

| | | | | | | |
|----------------------|----------|---------------|------|------|--------|------|
| Sodium | ppm | ASTM D5185(m) | | 7 | 69 | 3 |
| Boron | ppm | ASTM D5185(m) | 1 | 2 | 3 | 2 |
| Barium | ppm | ASTM D5185(m) | 1 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 1 | 66 | 80 | 63 |
| Manganese | ppm | ASTM D5185(m) | 1 | 1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 10 | 1011 | 1216 | 1051 |
| Calcium | ppm | ASTM D5185(m) | 2942 | 1117 | 1274 | 1150 |
| Phosphorus | ppm | ASTM D5185(m) | 1102 | 1010 | 1280 | 1090 |
| Zinc | ppm | ASTM D5185(m) | 1351 | 1225 | 1524 | 1371 |
| Sulfur | ppm | ASTM D5185(m) | 3903 | 2420 | 2549 | 2574 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 20.9 | ▲ 26.8 | 22.1 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 74.0 | 83.5 | 92.5 | 84.7 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 11.4 | 12.5 | 13.1 | 12.3 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 146 | 146 | 140 | 140 |



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081926 **Received** : 26 Feb 2024
Lab Number : 02617938 **Tested** : 27 Feb 2024
Unique Number : 5735048 **Diagnosed** : 27 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

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.

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