



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

Machine Id
0964
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PC0078396 | PC0082790 | PC0082832 |
| Sample Date | | Client Info | | 27 May 2024 | 04 Mar 2024 | 03 Jan 2024 |
| Machine Age | kms | Client Info | | 906638 | 895170 | 882254 |
| Oil Age | kms | Client Info | | 11323 | 12716 | 14416 |
| Filter Age | kms | Client Info | | 11323 | 12716 | 14416 |
| Oil Changed | | Client Info | | Changed | Changed | 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) | >100 | 52 | 41 | 38 |
| Chromium | ppm | ASTM D5185(m) | >20 | 1 | 1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >4 | 4 | 4 | 4 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 16 | 10 | 11 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >330 | 6 | 3 | 5 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

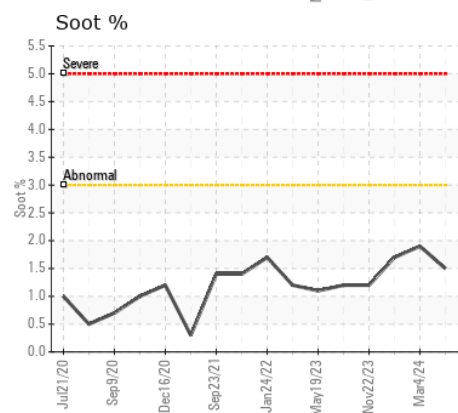
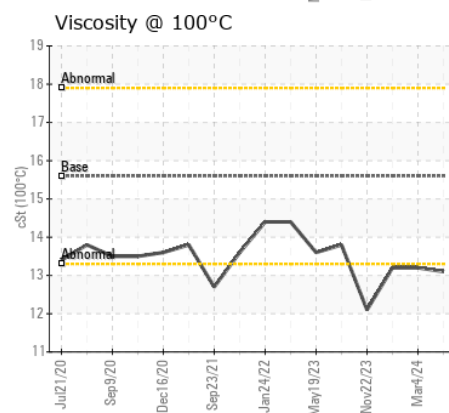
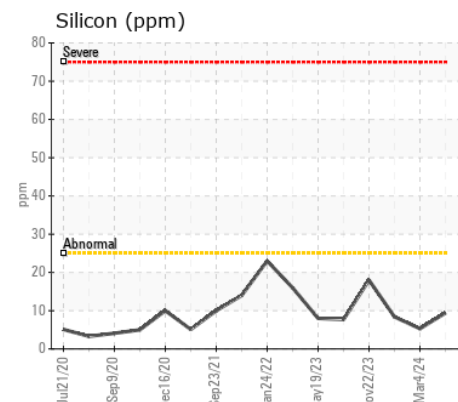
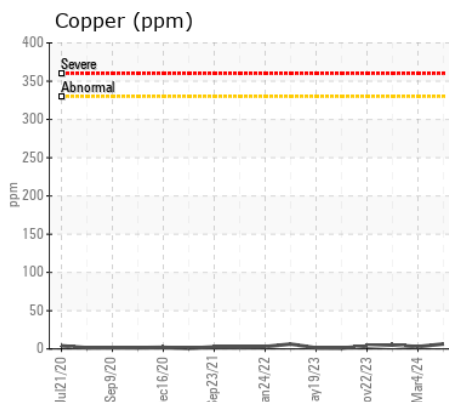
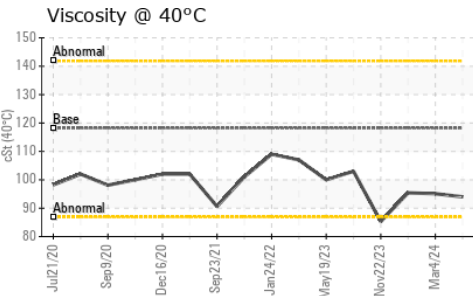
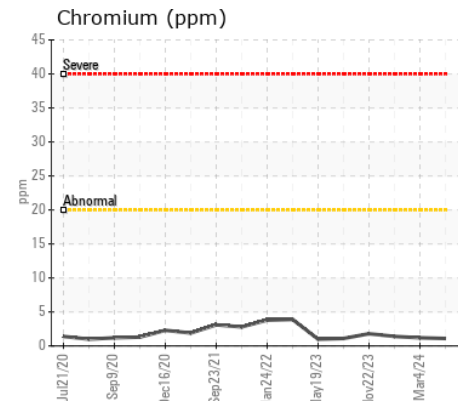
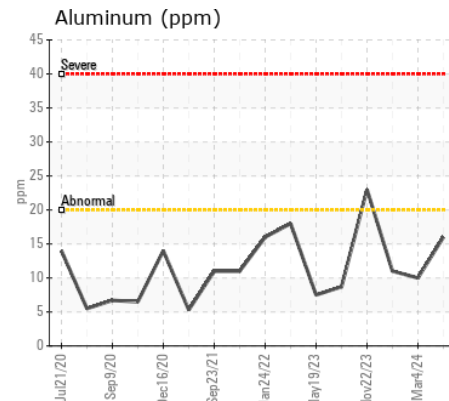
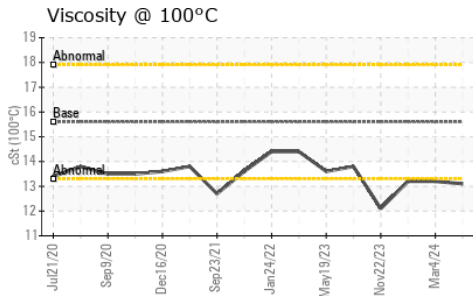
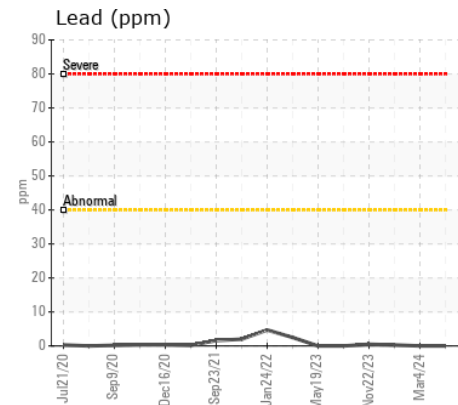
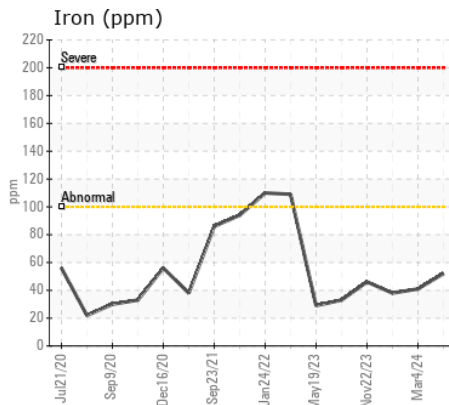
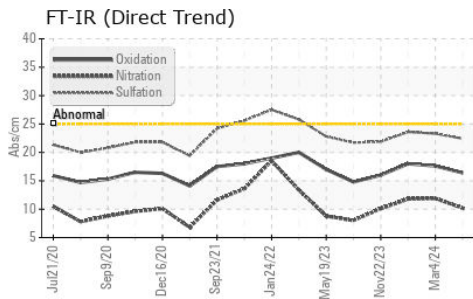
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 9 | 5 | 8 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 1 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | 1.5 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 1.5 | 1.9 | 1.7 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 10.2 | 11.9 | 11.8 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 22.4 | 23.3 | 23.6 |
| 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) | | 18 | 26 | 69 |
| Boron | ppm | ASTM D5185(m) | 0 | 2 | 4 | 4 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 61 | 64 | 64 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 964 | 1009 | 1000 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1090 | 1248 | 1155 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1062 | 1048 | 1082 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1199 | 1254 | 1250 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2520 | 2732 | 2775 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 16.4 | 17.6 | 18.0 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 118.2 | 94.0 | 95.1 | 95.4 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.6 | 13.1 | 13.2 | 13.2 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 139 | 137 | 137 | 137 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078396
Lab Number : 02639828
Unique Number : 5788990
Test Package : MOB 1 (Additional Tests: KV40, VI)

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

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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