



OIL ANALYSIS REPORT

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

Area
[809929]
 Machine Id
 Component
HME P#151
 Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0812448 | WC0618736 | WC0418657 |
| Sample Date | | Client Info | | 02 Feb 2024 | 09 Nov 2021 | 17 Oct 2020 |
| Machine Age | kms | Client Info | | 164200 | 139999 | 128954 |
| Oil Age | kms | Client Info | | 0 | 0 | 0 |
| Filter Age | kms | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | MARGINAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >90 | 28 | 17 | 14 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 4 | 2 | 2 |
| Lead | ppm | ASTM D5185(m) | >40 | 1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | 2 | 1 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

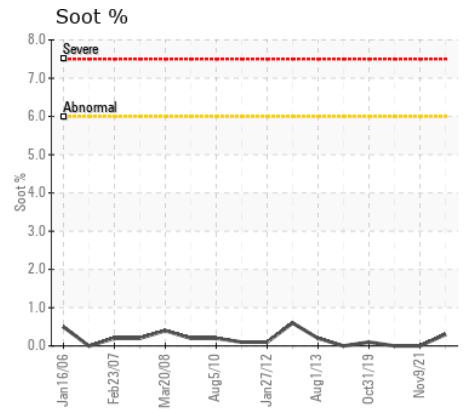
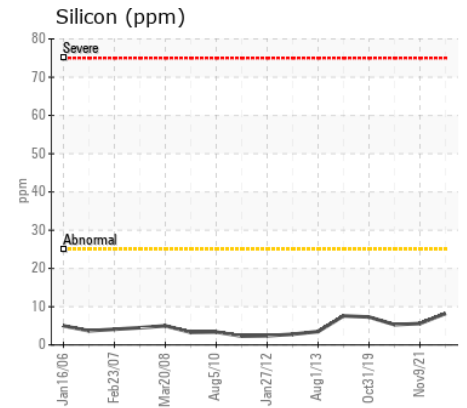
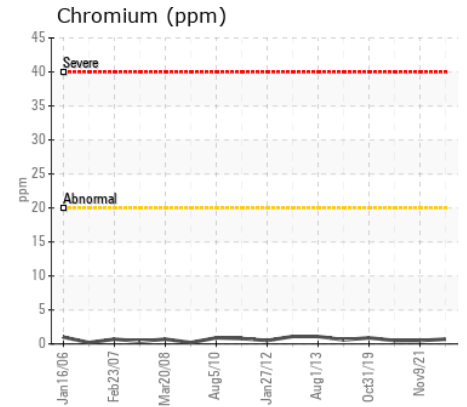
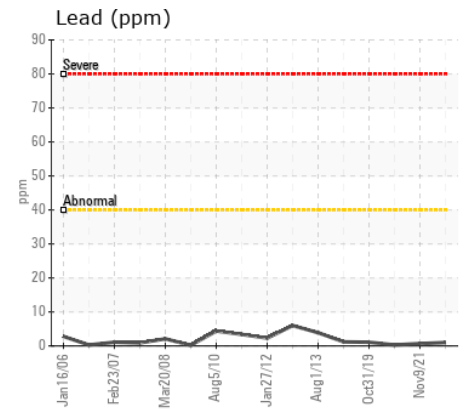
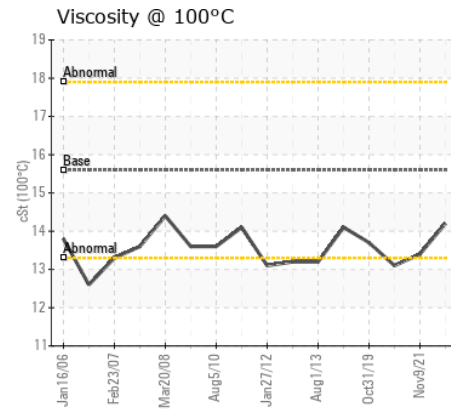
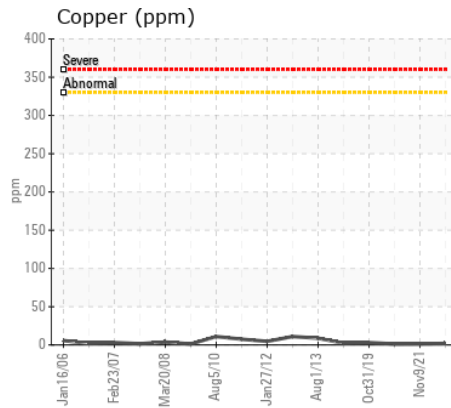
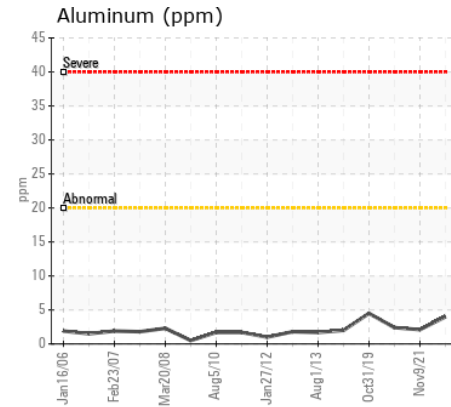
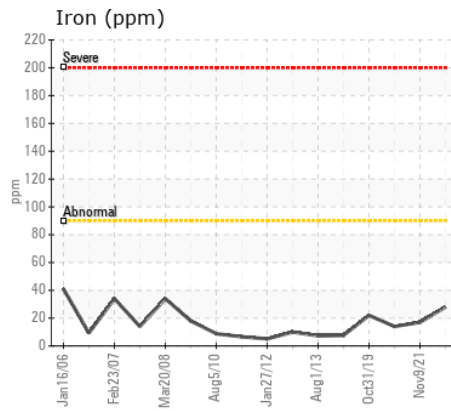
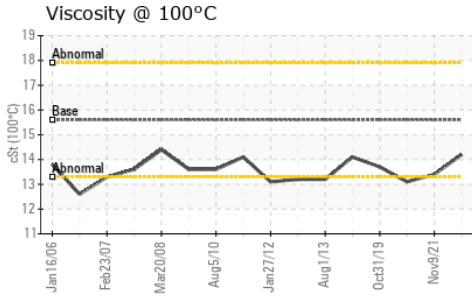
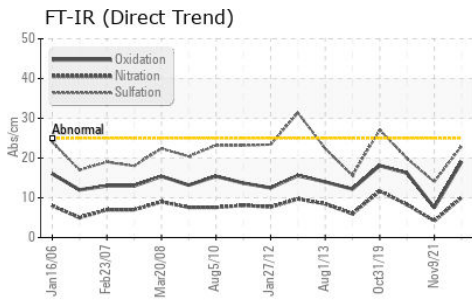
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|-------|
| Silicon | ppm | ASTM D5185(m) | >25 | 8 | 6 | 5 |
| Potassium | ppm | ASTM D5185(m) | >20 | 4 | 2 | 1 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | ▲ 1.2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >6 | 0.3 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 10.1 | 4.2 | 8.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 23.0 | 14.0 | 19.9 |
| 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) | | 3 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | 0 | 2 | 3 | 4 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 60 | 53 | 56 | 58 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 1010 | 870 | 547 | 449 |
| Calcium | ppm | ASTM D5185(m) | 1070 | 1287 | 1621 | 1706 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1020 | 1077 | 1043 |
| Zinc | ppm | ASTM D5185(m) | 1270 | 1203 | 1261 | 1273 |
| Sulfur | ppm | ASTM D5185(m) | 2060 | 2582 | 2864 | 3038 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 19.1 | 7.5 | 16.2 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.6 | 14.2 | 13.4 | 13.1 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0812448
Lab Number : 02640620
Unique Number : 5789782
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.