

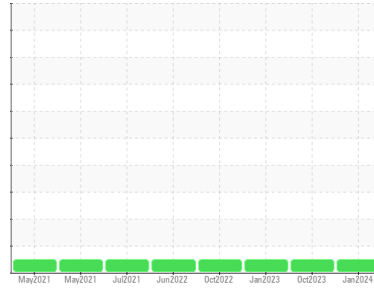
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Rock Truck
Machine Id
HT2607
Component
Front Axle
Fluid
PETRO CANADA PRODURO FD-1 60 (66 LTR)



DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | PC0050979 | PC0066726 | PC0067018 |
| Sample Date | Client Info | | 27 Jan 2024 | 07 Oct 2023 | 08 Jan 2023 |
| Machine Age | hrs | Client Info | 42614 | 40917 | 37663 |
| Oil Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Changed | | Client Info | N/A | N/A | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >500 | 6 | 10 | 7 |
| Chromium | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >10 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | 0 | 1 | 0 |
| Aluminum | ppm | ASTM D5185(m) >25 | 2 | 1 | 1 |
| Lead | ppm | ASTM D5185(m) >25 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) >50 | <1 | 3 | 1 |
| Tin | ppm | ASTM D5185(m) >10 | 0 | 0 | <1 |
| Antimony | ppm | ASTM D5185(m) >5 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | 0 | 0 | 0 |

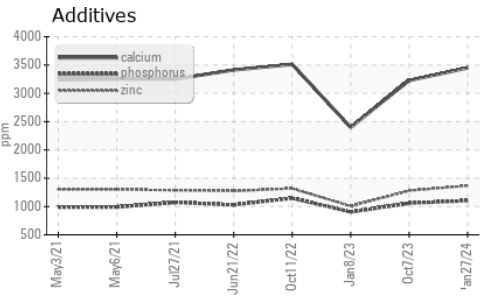
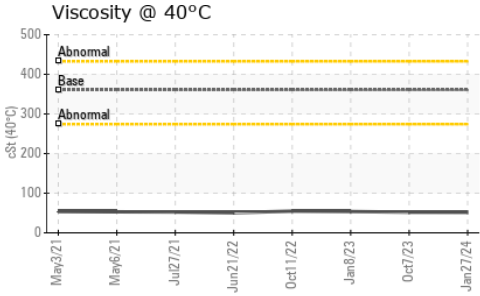
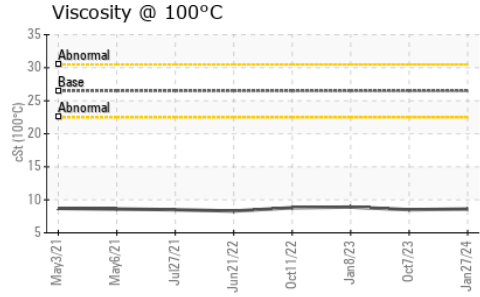
ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 92 | 93 | 74 | 13 |
| Barium | ppm | ASTM D5185(m) 0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185(m) 0 | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) 0 | 20 | 21 | 18 |
| Calcium | ppm | ASTM D5185(m) 283 | 3448 | 3226 | 2398 |
| Phosphorus | ppm | ASTM D5185(m) 306 | 1103 | 1058 | 904 |
| Zinc | ppm | ASTM D5185(m) 0 | 1369 | 1279 | 1007 |
| Sulfur | ppm | ASTM D5185(m) 9080 | 3049 | 2615 | 2573 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >75 | 10 | 11 | 6 |
| Sodium | ppm | ASTM D5185(m) | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | 0 | <1 |

OIL ANALYSIS REPORT

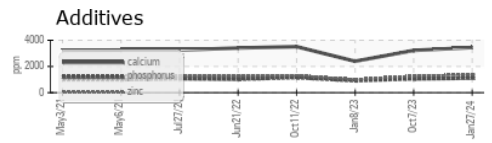
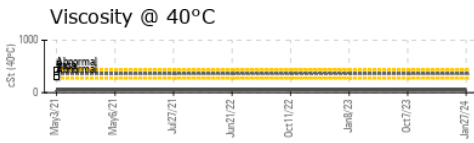
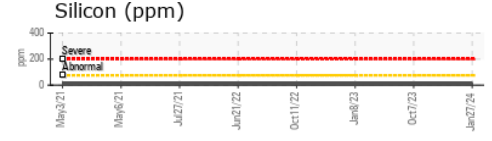
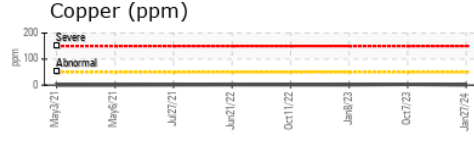
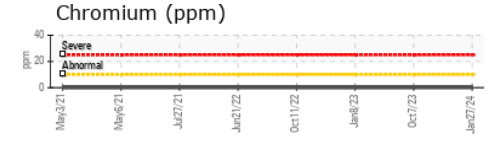
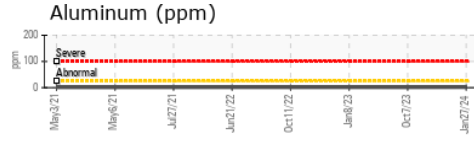
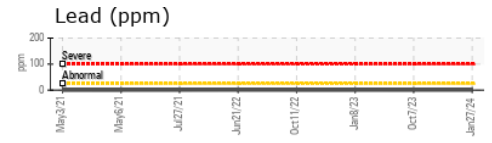
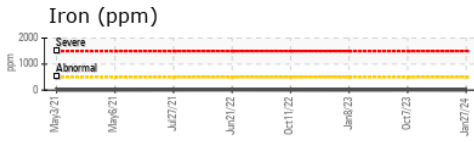


| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|----------------------|--------|---------------|---------|----------|----------|------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 360.6 | 51.7 | 52.0 | 53.7 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 26.49 | 8.6 | 8.5 | 8.9 |
| Viscosity Index (VI) | Scale | ASTM D2270* | 98 | 143 | 138 | 144 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0050979
Lab Number : 02614451
Unique Number : 5723546
Test Package : MOB 1 (Additional Tests: KV100, VI)

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 CA
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 F:

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.