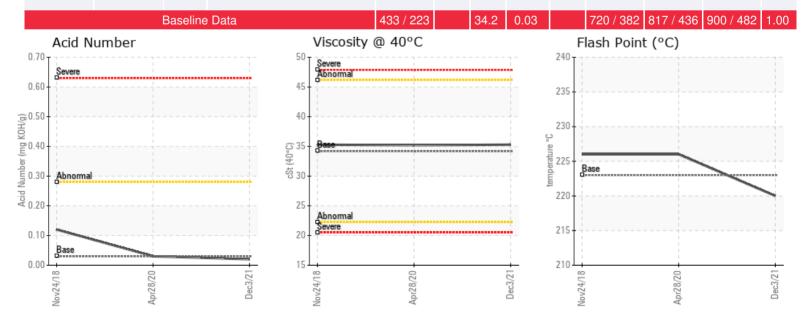


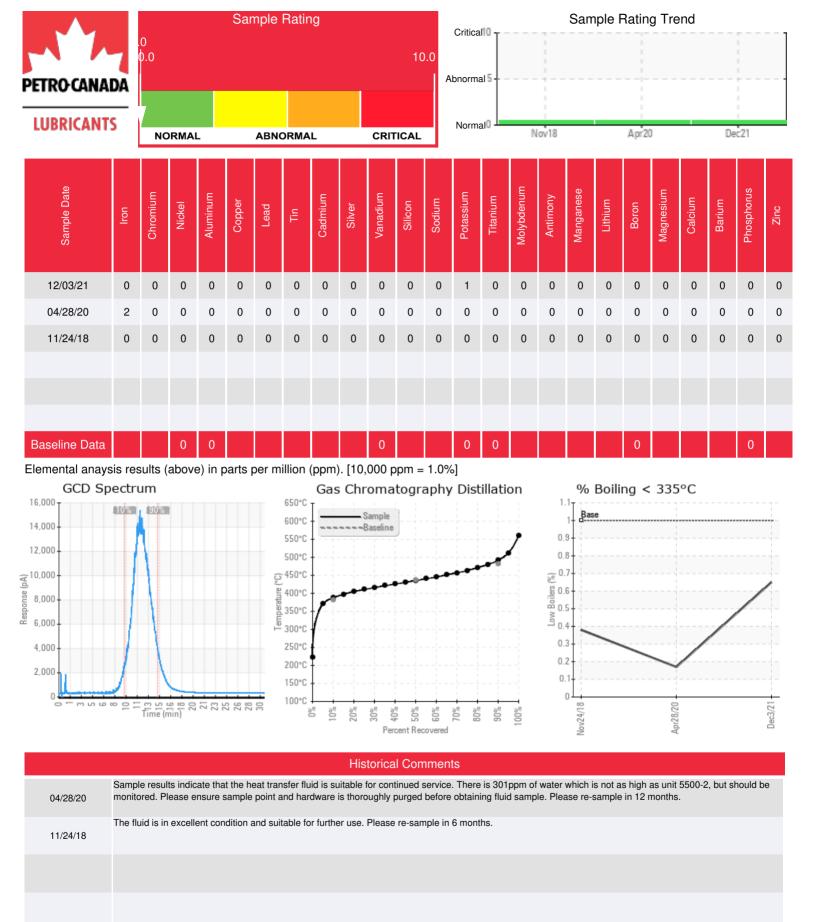
| Customer: PTRHTF20156 | System Information | Sample Information |
|----------------------------------|----------------------------------|----------------------------------|
| TOURMALINE OIL | System Volume: 15000 ltr | Lab No: 02476628 |
| 9920 98a Ave | Bulk Operating Temp: 345F / 174C | Analyst: Clinton Buhler |
| FORT ST. JOHN, BC V1J 1S2 Canada | Heating Source: | Sample Date: 12/03/21 |
| Attn: Brandon Braun | Blanket: | Received Date: 03/10/22 |
| Tel: (250)262-5420 | Fluid: PETRO CANADA PETRO-THERM | Completed: 03/16/22 |
| E-Mail: | Make: | Clinton Buhler |
| Brandon.braun@tourmalineoil.com | | Clinton.Buhler@hollyfrontier.com |

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months

Comments:

| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|-------------|---------------|-----------|---------------------|-------------------|------------|------------------|--------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/ g | %wt | °F/°C | °F/°C | °F/°C | % |
| 12/03/21 | 03/10/22 | 4.0m | Exp tank disch line | 428 / 220 | 235.6 | 35.3 | 0.02 | 0.073 | 729 / 387 | 815 / 435 | 916 / 491 | 0.65 |
| 04/28/20 | 04/29/20 | 36.0m | EXPANSION TANK PUMP | 439 / 226 | 301.3 | 35.2 | 0.03 | 0.067 | 733 / 390 | 817 / 436 | 917 / 492 | 0.17 |
| 11/24/18 | 12/18/18 | 18.0m | | 439 / 226 | 152.0 | 35.3 | 0.12 | 0.045 | 721 / 383 | 810 / 432 | 917 / 492 | 0.38 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |





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