

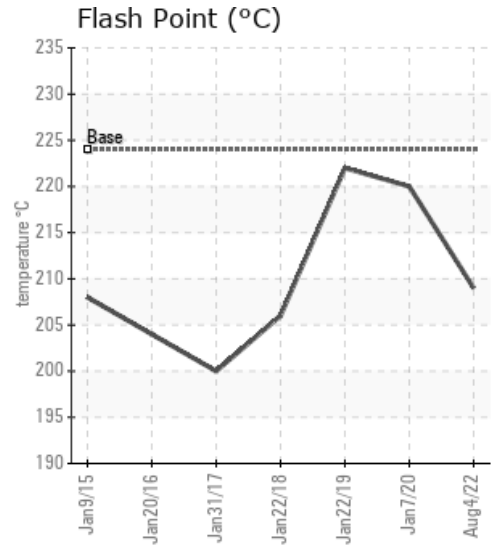
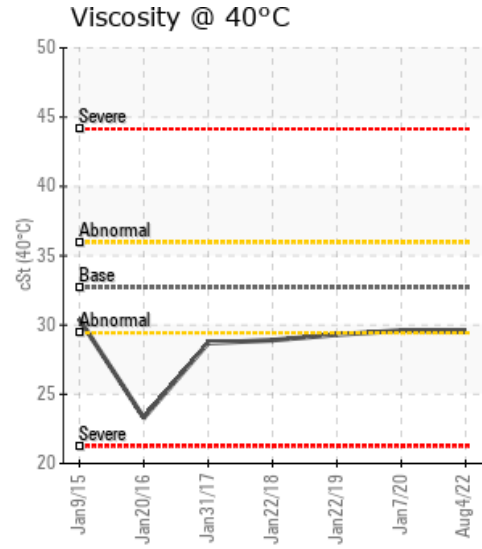
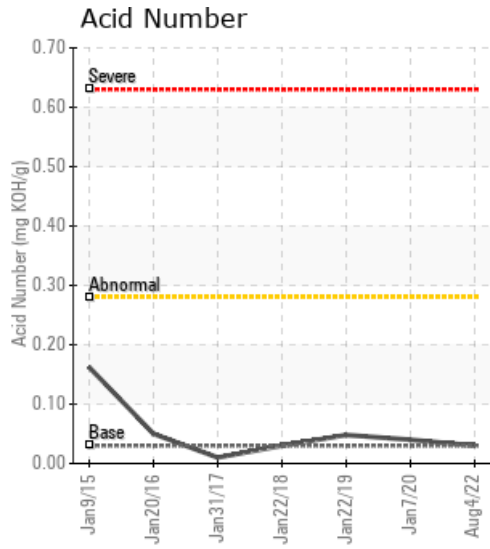
[Pembina Kakwa 8-13-63-5W6] Phase 2 Heat Medium

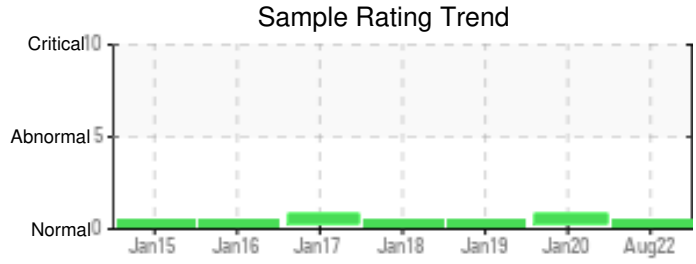
| Customer: PTRHTF20062 | System Information | Sample Information |
|-----------------------------------|----------------------------------|-------------------------------|
| Pembina Gas Services | System Volume: 84000 ltr | Lab No: 02516976 |
| GRANDE PRAIRIE, AB T8V 7K2 Canada | Bulk Operating Temp: 482F / 250C | Analyst: Clinton Buhler |
| Attn: Dave Clark | Heating Source: | Sample Date: 08/04/22 |
| Tel: (780)296-1578 | Blanket: | Received Date: 10/18/22 |
| E-Mail: dclark@pembina.com | Fluid: PETRO CANADA CALFLO AF | Completed: 10/24/22 |
| | Make: HEATECH | Clinton Buhler |
| | | Clinton.Buhler@HFSinclair.com |

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

Comments:

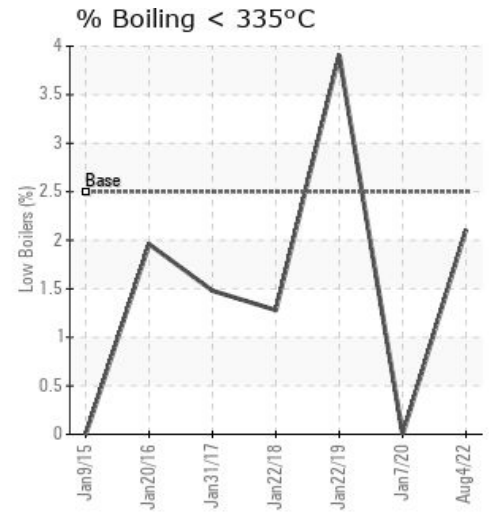
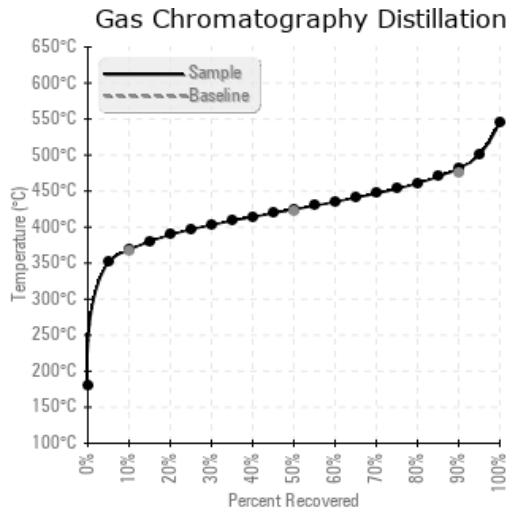
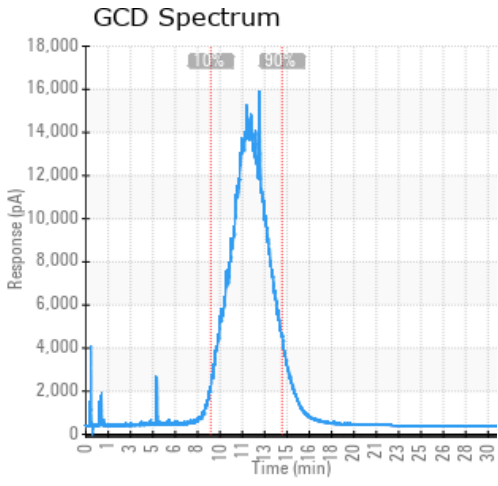
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|----------------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 08/04/22 | 10/18/22 | 0.0y | FILTER POT LINE | 408 / 209 | 9.0 | 29.5 | 0.03 | 0.344 | 695 / 368 | 796 / 425 | 899 / 482 | 2.11 |
| 01/07/20 | 02/03/20 | 5.0y | SLIPSTREAM | 428 / 220 | 0.00 | 29.6 | 0.040 | 0.043 | 720 / 382 | 797 / 425 | 886 / 474 | 0.00 |
| 01/22/19 | 02/04/19 | 5.0y | FILTER POT | 432 / 222 | 21.9 | 29.3 | 0.048 | 0.044 | 668 / 353 | 772 / 411 | 876 / 469 | 3.91 |
| 01/22/18 | 01/29/18 | 4.0y | | 403 / 206 | 33.2 | 28.9 | 0.03 | 0.067 | 685 / 363 | 782 / 417 | 896 / 480 | 1.28 |
| 01/31/17 | 02/13/17 | 3.0y | SLIP STRM FLTR PP DC | 392 / 200 | 6.9 | 28.7 | 0.01 | 0.054 | 694 / 368 | 796 / 425 | 906 / 485 | 1.48 |
| Baseline Data | | | | 435 / 224 | | 32.7 | 0.03 | | 693 / 367 | 790 / 421 | 887 / 475 | 2.5 |





| Sample Date | Iron | Chromium | Nickel | Aluminum | Copper | Lead | Tin | Cadmium | Silver | Vanadium | Silicon | Sodium | Potassium | Titanium | Molybdenum | Antimony | Manganese | Lithium | Boron | Magnesium | Calcium | Barium | Phosphorus | Zinc |
|----------------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 08/04/22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| 01/07/20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| 01/22/19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| 01/22/18 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 |
| 01/31/17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Baseline Data | | | 0 | 0 | | | | | | 0 | | | 0 | 0 | | | | | 0 | | | | 270 | |

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments

| | |
|----------|---|
| 01/07/20 | Sample results indicate that the fluid is suitable for continued service. Please re-sample in 12 months (GCD) 10% Distillation Point is marginally high. |
| 01/22/19 | Sample results indicate the fluid is suitable for continued service. Please re-sample in 12 months |
| 01/22/18 | Sample results indicate that the fluid is suitable for continued service. Consider sampling again in 12 months. |
| 01/31/17 | (GCD) 90% Distillation Point is marginally high. TAN and Viscosity are within spec. Flash point is marginally lower than normal however fluid is suitable for continued use. Resample in 6 months. (GCD) 90% Distillation Point is marginally high. |

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