

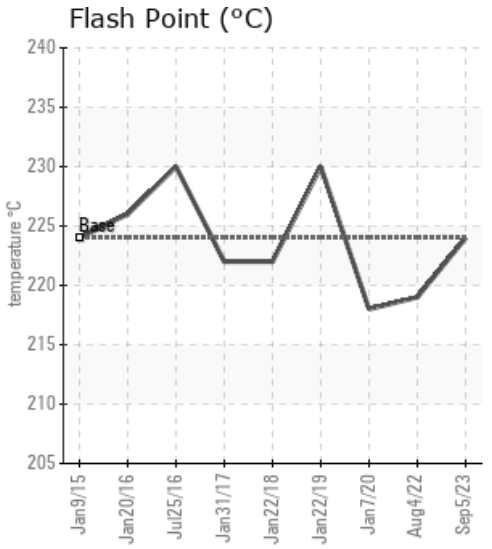
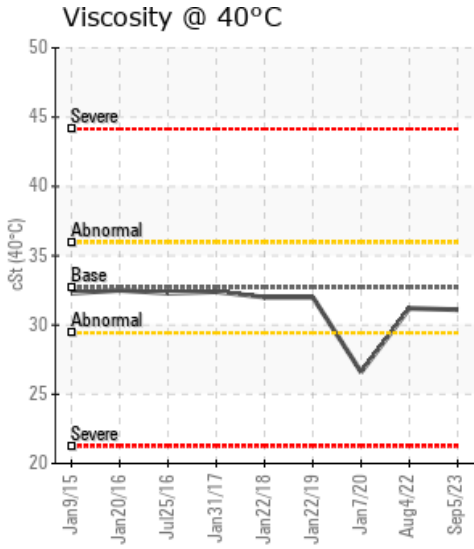
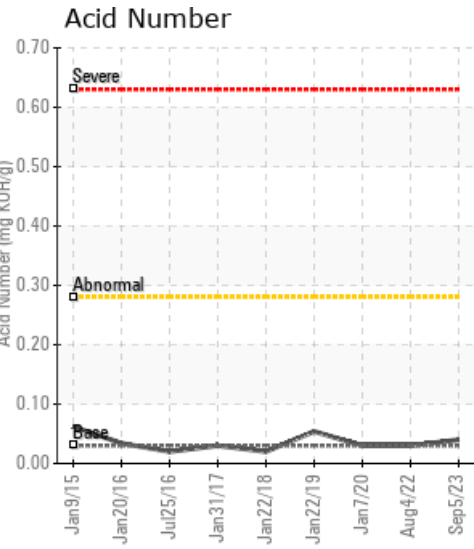
[PEMBINA KAKWA RIVER / LSD 8-13-63-5W6] PARAMOUNT PHASE #3 HEAT

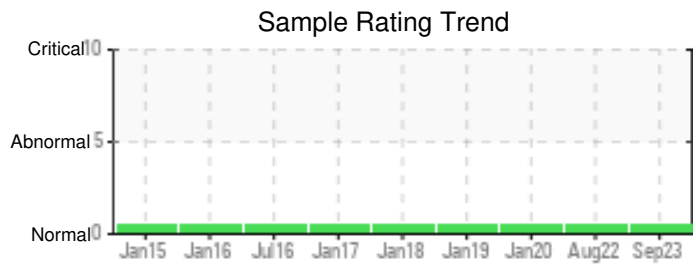
| Customer: PTRHTF20062 | System Information | Sample Information |
|-------------------------------|---------------------------------|-------------------------------|
| Pembina Gas Services | System Volume: 60000 ltr | Lab No: 02582627 |
| GRANDE PRAIRIE, AB T8V 7K2 CA | Bulk Operating Temp: 149F / 65C | Analyst: Clinton Buhler |
| Attn: Nicolas Brooks | Heating Source: | Sample Date: 09/05/23 |
| Tel: (403)874-8047 | Blanket: | Received Date: 09/14/23 |
| E-Mail: nbrooks@pembina.com | Fluid: PETRO CANADA CALFLO AF | Completed: 09/19/23 |
| | 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:

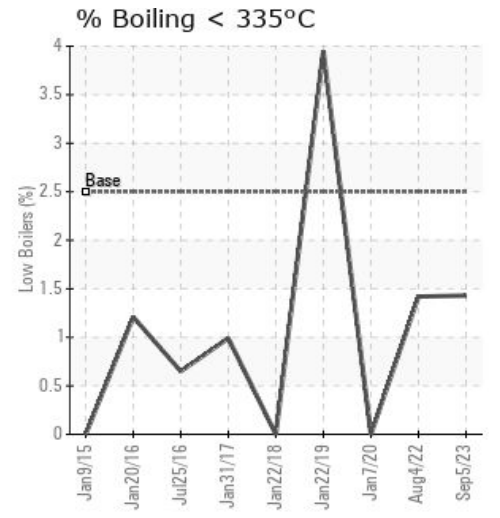
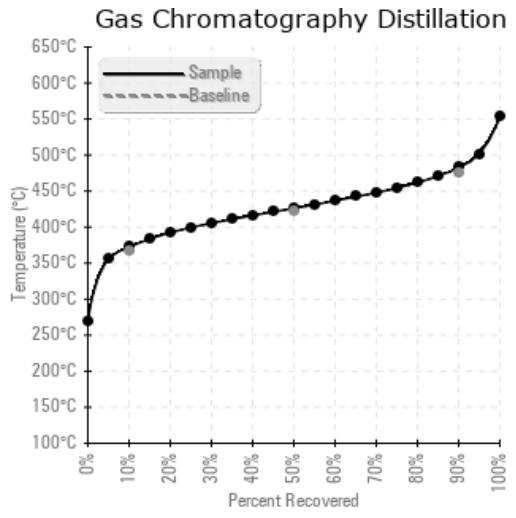
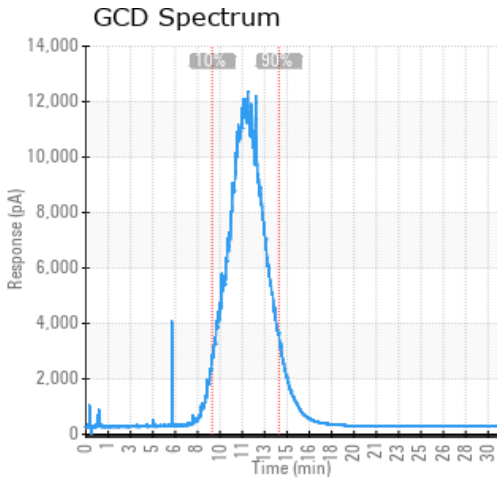
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|-------------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 09/05/23 | 09/14/23 | 8.0y | Top of filter pot | 435 / 224 | 21.7 | 31.1 | 0.04 | 0.036 | 702 / 372 | 799 / 426 | 901 / 483 | 1.43 |
| 08/04/22 | 10/18/22 | 0.0y | FILTER POT LINE | 426 / 219 | 9.2 | 31.2 | 0.03 | 0.339 | 703 / 373 | 799 / 426 | 899 / 482 | 1.42 |
| 01/07/20 | 02/03/20 | 4.0y | FILTER POT | 424 / 218 | 0.00 | 26.6 | 0.030 | 0.029 | 709 / 376 | 791 / 421 | 885 / 474 | 0.00 |
| 01/22/19 | 02/04/19 | 4.0y | FILTER POT | 446 / 230 | 18.6 | 32.0 | 0.054 | 0.066 | 666 / 352 | 767 / 409 | 876 / 469 | 3.95 |
| 01/22/18 | 01/29/18 | 3.0y | | 432 / 222 | 35.5 | 32.0 | 0.02 | 0.034 | 696 / 369 | 785 / 419 | 893 / 478 | 0.00 |
| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 09/05/23 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 1 |
| 08/04/22 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 30 | 0 |
| 01/07/20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 29 | 0 |
| 01/22/19 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 251 | 0 |
| 01/22/18 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 272 | 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

| | |
|----------|--|
| 08/04/22 | Sample results indicate the fluid is in suitable condition for continued service. Solids content has risen to 0.339%. This can be associated with fluid degradation or perhaps from drawing a sample without sufficient flushing of the sample valve and piping. Thermal and oxidative degradation appear to be at low levels so it seems unlikely that is the cause at this time. Please re-sample in 12 months and ensure sample valve is thoroughly purge prior to collecting sample. |
| 01/07/20 | Sample results indicate that the fluid is suitable for continued service. Viscosity has reduced slightly. Please re-sample in 12 months |
| 01/22/19 | Sample results indicate that 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 re-sampling in 12 months |

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