

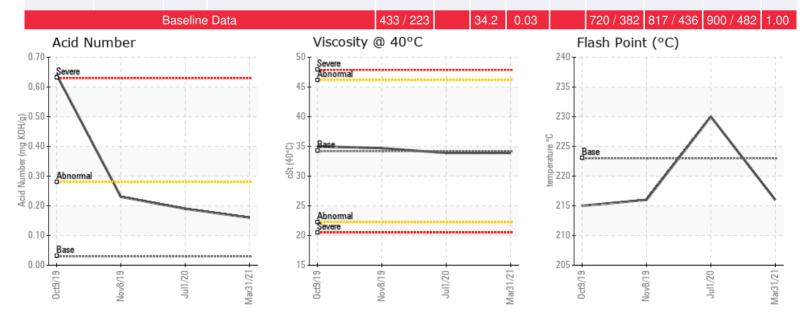
[4-21-55-23-W5] H-1311

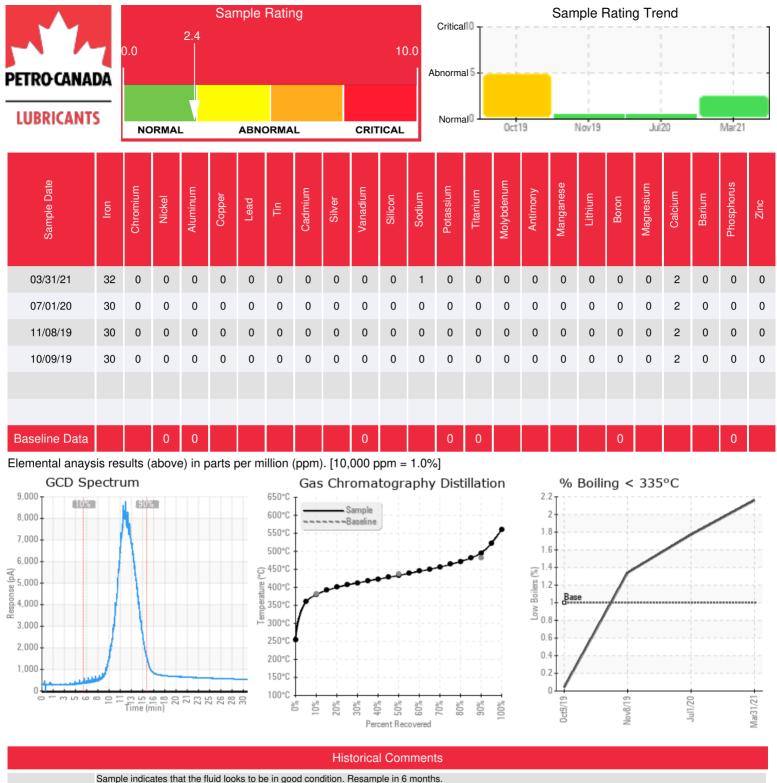
| Customer: PTRHTF20089 | System Information | Sample Information |
|------------------------------|----------------------------------|----------------------------------|
| PEYTO ENERGY TRUST - WILDHAY | System Volume: 18000 ltr | Lab No: 02413099 |
| Box 7198 | Bulk Operating Temp: 351F / 177C | Analyst: Clinton Buhler |
| Edson, AB T4E 1V4 Canada | Heating Source: | Sample Date: 03/31/21 |
| Attn: Sonny Claybo | Blanket: | Received Date: 04/06/21 |
| Tel: (780)817-4339 | Fluid: PETRO CANADA PETRO-THERM | Completed: 04/20/21 |
| E-Mail: sclaybo@peyto.com | Make: ALCO | Clinton Buhler |
| | | Clinton.Buhler@hollyfrontier.com |

Recommendation: Sample results indicate that the fluid is suitable for continued service. Please note increase in Solids content (0.641%). This can be associated with thermal and oxidative degradation and possibly from corrosion although Iron content has not elevated over the last several samples. Please ensure that blanket gas is operational and plan for filtering of fluid.Please resample in 6 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 | % |
| 03/31/21 | 04/06/21 | 14127.0h | disch side of pump | 421 / 216 | 10.1 | 33.9 | 0.16 | 0.641 | 715 / 379 | 811 / 433 | 923 / 495 | 2.16 |
| 07/01/20 | 09/28/20 | 11.0h | Pump Discharge | 446 / 230 | 14.5 | 33.9 | 0.19 | 0.316 | 725 / 385 | 817 / 436 | 910 / 488 | 1.77 |
| 11/08/19 | 11/18/19 | 90.0h | DISCHARGE | 421 / 216 | 0.8 | 34.7 | 0.230 | 0.253 | 711 / 377 | 805 / 430 | 899 / 481 | 1.34 |
| 10/09/19 | 10/16/19 | 60.0h | | 419 / 215 | 5.8 | 35.0 | 0.641 | 0.462 | 741 / 394 | 832 / 445 | 927 / 497 | 0.04 |
| | | | | | | | | | | | | |





| 07/01/20 | Sample indicates that the fluid looks to be in good condition. Resample in 6 months. |
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| 11/08/19 | The fluid is in a good condition and suitable for further use. The AN has decreased to 0.23 which is acceptable. The fluid is no longer acidic which minimizes corrosion. Please re-sample in 6 months. |
| 10/09/19 | For a fluid that has been in service for 60 days it is in poor condition. The AN is high, fluid is slightly acidic. Fe content of 30 ppm is indicative of that. (corrosion)The 90% GCD temperature is high. This in combination with the high AN indicates fluid degradation by oxidation. Pentane Insoluble (solids) content is slightly high with 0.46% (reportable limit is 0.5%). Filtration of the fluid has to be considered. To stop the fluid from becoming more acidic, causing further system corrosion, it is recommended the sweeten 25% of the fill with fresh fluid. Please re-sample after sweetening. Pentane Insolubles levels are abnormally high. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is abnormally high. |
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