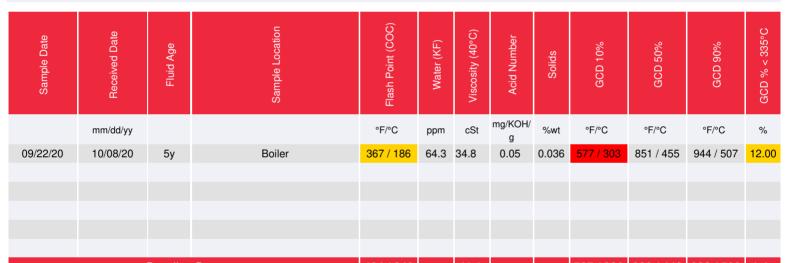


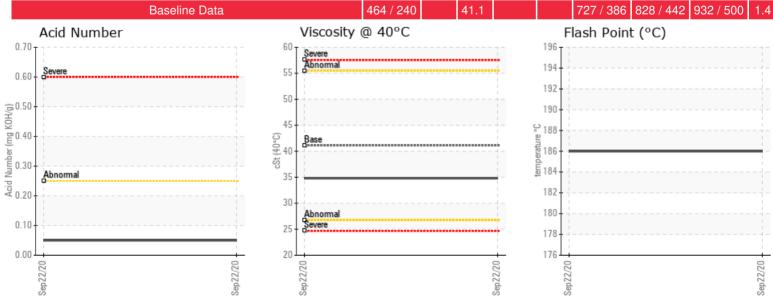
[14-32-37-3W5] BTG ENERGY

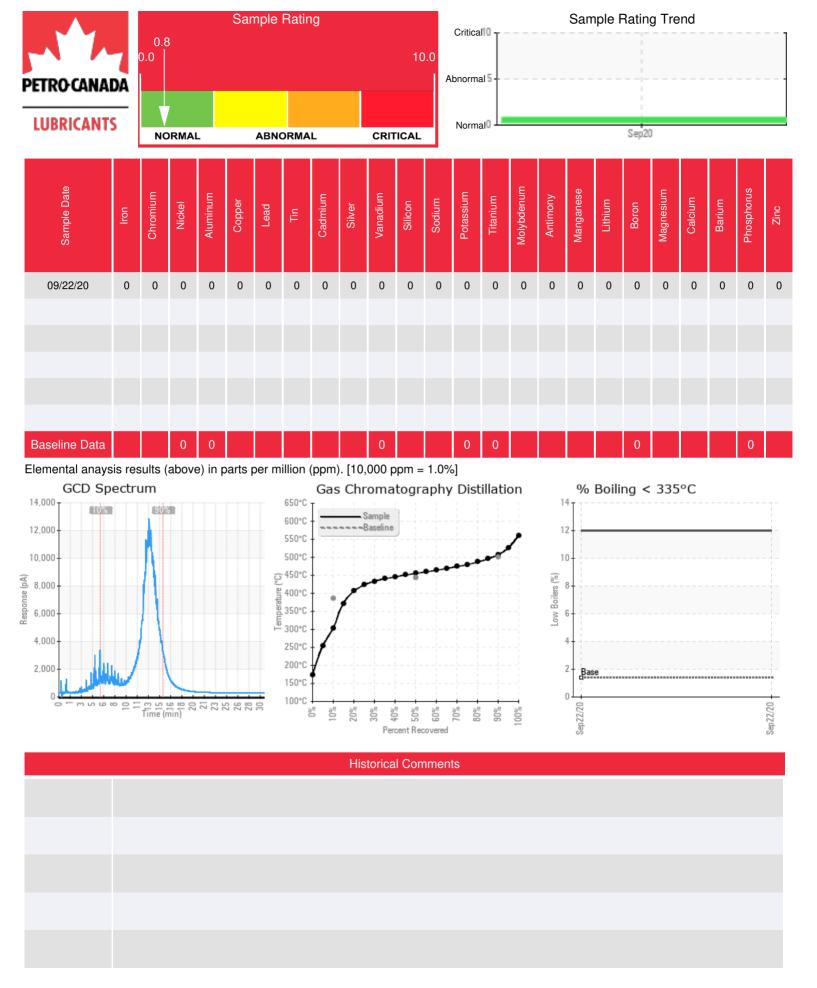
| Customer: PTRHTF20243 | System Information | Sample Information |
|------------------------------------|-------------------------------------|------------------------------------|
| CFR CHEMICALS | System Volume: 10000 ltr | Lab No: 02380381 |
| 38451 RRZZ | Bulk Operating Temp: 392F / 200C | Analyst: Kevin McDermott |
| RED DEER, AB T4E 2N6 Canada | Heating Source: | Sample Date: 09/22/20 |
| Attn: Andrew Schacher | Blanket: | Received Date: 10/08/20 |
| Tel: (780)982-8478 | Fluid: CHEVRON HEAT TRANSFER OIL 46 | Completed: 10/27/20 |
| E-Mail: aschacher@cfrchemicals.com | Make: | Kevin McDermott |
| | | kevin.mcdermott@petrocanadalsp.com |

Recommendation: Fluid is generally in good condition, however there is an unusually high degree of low-boiler content and reduced viscosity as well as lower-than-normal flash point. These symptoms could be caused by thermal degradation (cracking) or possibly exchanger leaking hydrocarbon liquids into the fluid. These are concerning, but not yet severe. Suggest another sample in 3 months to see if conditions worsen.

Comments: (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is abnormally high. COC Flash Point is abnormally low.







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