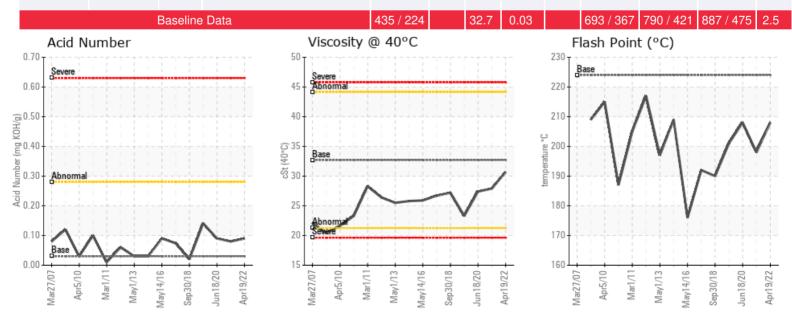


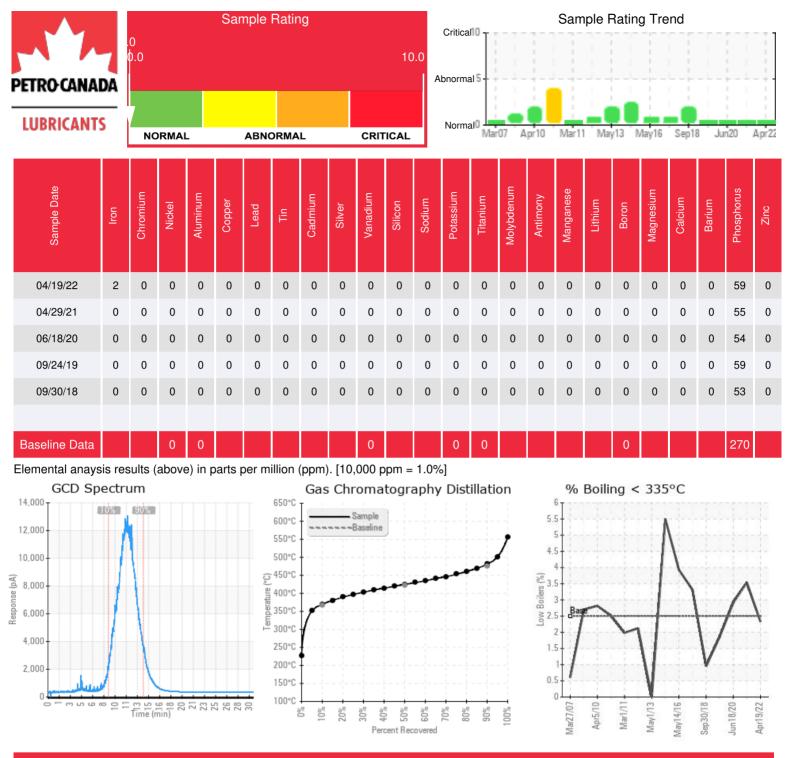
| Customer: PTRHTF10069 | System Information | Sample Information |
|--|----------------------------------|---------------------------------|
| CERTAINTEED - SAINT GOBAIN | System Volume: 5670 gal | Lab No: 02487799 |
| 3303 EAST 4TH AVENUE | Bulk Operating Temp: 428F / 220C | Analyst: Neil Buchanan |
| SHAKOPEE, MN 55379 USA | Heating Source: | Sample Date: 04/19/22 |
| Attn: Alex Hanley | Blanket: | Received Date: 05/10/22 |
| Tel: | Fluid: PETRO CANADA CALFLO AF | Completed: 05/12/22 |
| E-Mail: Alex.J.Hanley@saint-gobain.com | Make: | Neil Buchanan |
| | | neil.buchanan@hollyfrontier.com |

Recommendation: Sample looks good. Resample next interval to monitor.

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 | % |
| 04/19/22 | 05/10/22 | 0.0y | | 406 / 208 | 3.0 | 30.7 | 0.09 | 0.036 | 696 / 369 | 796 / 424 | 898 / 481 | 2.33 |
| 04/29/21 | 05/11/21 | 15.0y | | 388 / 198 | 10.1 | 27.9 | 0.08 | 0.041 | 685 / 363 | 782 / 416 | 904 / 484 | 3.54 |
| 06/18/20 | 06/29/20 | 0.0y | main system | 406 / 208 | 12.1 | 27.4 | 0.09 | 0.104 | 694 / 368 | 795 / 424 | 895 / 480 | 2.91 |
| 09/24/19 | 10/21/19 | 0.0y | MAIN SYSTEM FLOW | 394 / 201 | 9.0 | 23.3 | 0.141 | 0.074 | 699 / 371 | 798 / 426 | 898 / 481 | 1.86 |
| 09/30/18 | 10/10/18 | 0.0y | | 374 / 190 | 8.4 | 27.2 | 0.02 | 0.034 | 691 / 366 | 782 / 417 | 877 / 469 | 0.95 |





Historical Comments

| 04/29/21 | GCD graph, lowered IBP and slightly lowered flash point show the formation of some light boilers. Venting should be considered. Sample results look good otherwise. Resample next interval to monitor. |
|----------|---|
| 06/18/20 | Sample properties look good with a slight increase in viscosity more towards fluid typicals of 32.3 cSt, likely do to addition of fluid as Acid Number remains constant. Resample next interval to monitor. |
| 09/24/19 | The oil is holding steady with the properties remaining normal. Although we are seeing a drop in viscosity, the flash point increased. let's just keep an eye on it until the next sample. Contamination by asphalt, water or other elements is insignificant or non-detectable. No actions needed at this time. Re-sample at next scheduled interval |
| 09/30/18 | The flash point is a bit low because of the reduced viscosity but it remains stable from year to year. Re-sample at next scheduled interval. No trace of contamination by asphalt or the elements or fluid degradation. COC Flash Point is marginally low. |
| | |

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