

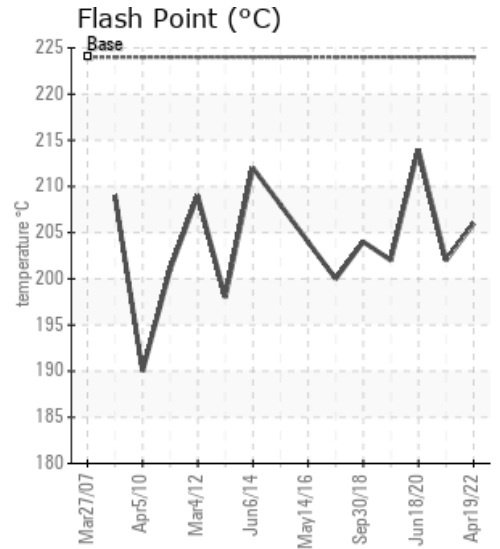
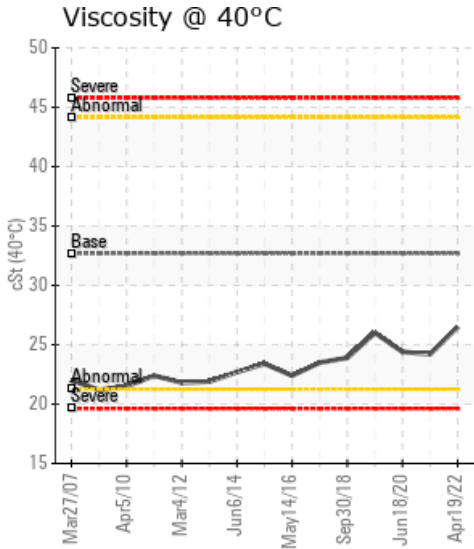
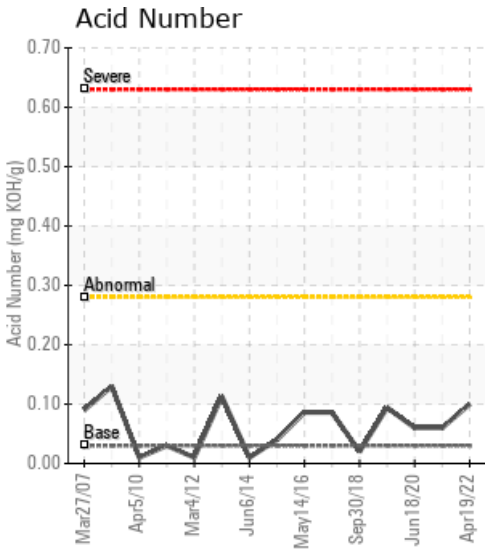
MODIFIED ROOM HOT OIL SYSTEM

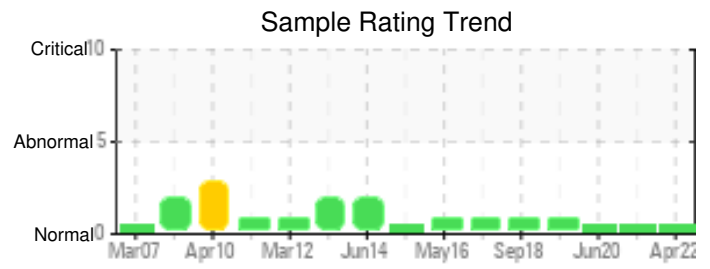
| Customer: PTRHTF10069 | System Information | Sample Information |
|---|--|---|
| CERTAINTEED - SAINT GOBAIN 3303 EAST 4TH AVENUE SHAKOPEE, MN 55379 USA Attn: Alex Hanley Tel: E-Mail: Alex.J.Hanley@saint-gobain.com | System Volume: 4158 gal Bulk Operating Temp: 500F / 260C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: | Lab No: 02487800 Analyst: Neil Buchanan Sample Date: 04/19/22 Received Date: 05/10/22 Completed: 05/12/22 Neil Buchanan neil.buchanan@hollyfrontier.com |

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

Comments:

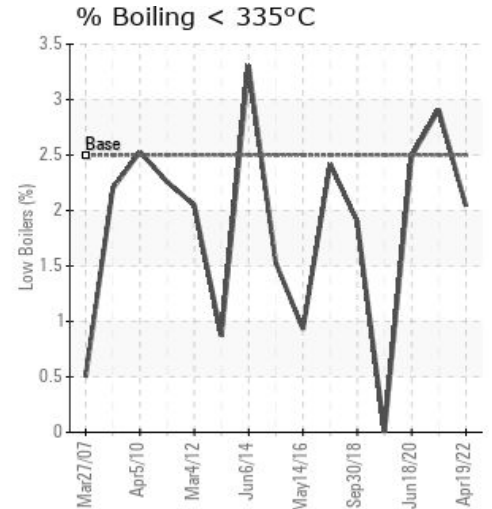
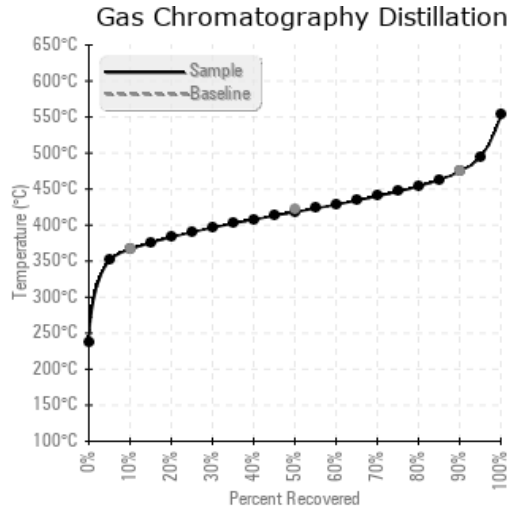
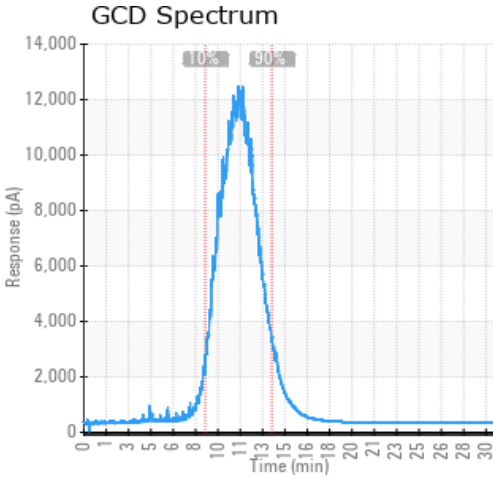
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|------------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | 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 | | 403 / 206 | 8.3 | 26.5 | 0.10 | 0.022 | 691 / 366 | 784 / 418 | 886 / 475 | 2.04 |
| 04/29/21 | 05/11/21 | 15.0y | | 396 / 202 | 12.5 | 24.2 | 0.06 | 0.038 | 684 / 362 | 771 / 411 | 885 / 474 | 2.91 |
| 06/18/20 | 06/29/20 | 0.0y | main system | 417 / 214 | 14.5 | 24.4 | 0.06 | 0.103 | 689 / 365 | 781 / 416 | 881 / 471 | 2.49 |
| 09/24/19 | 10/21/19 | 0.0y | MAIN SYSTEM FLOW | 396 / 202 | 19.1 | 26.0 | 0.094 | 0.093 | 695 / 368 | 778 / 415 | 868 / 464 | 0.00 |
| 09/30/18 | 10/10/18 | 0.0y | | 399 / 204 | 17.0 | 23.9 | 0.02 | 0.028 | 674 / 357 | 754 / 401 | 859 / 459 | 1.90 |
| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 04/19/22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 |
| 04/29/21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 |
| 06/18/20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 0 |
| 09/24/19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 |
| 09/30/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 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

| | |
|----------|--|
| 04/29/21 | Sample results look good. Resample next interval to monitor. |
| 06/18/20 | Sample properties look good and it is free of contamination. Resample next interval to monitor. |
| 09/24/19 | The oil is holding steady with the properties remaining normal from sample to 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 (GCD) 90% Distillation Point is marginally low. |
| 09/30/18 | The results are consistent with previous history. Resample at next scheduled interval. (GCD) 90% Distillation Point is abnormally low. |

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