

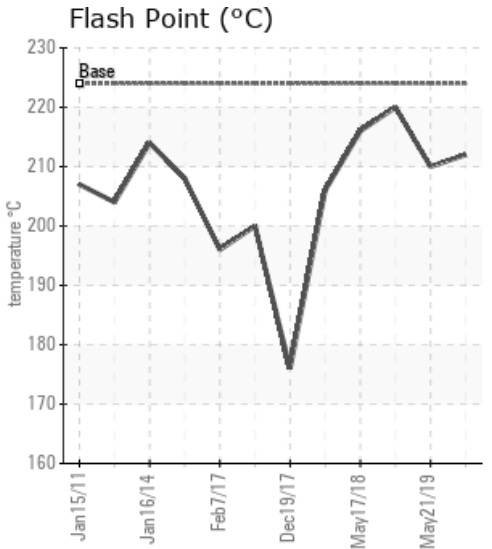
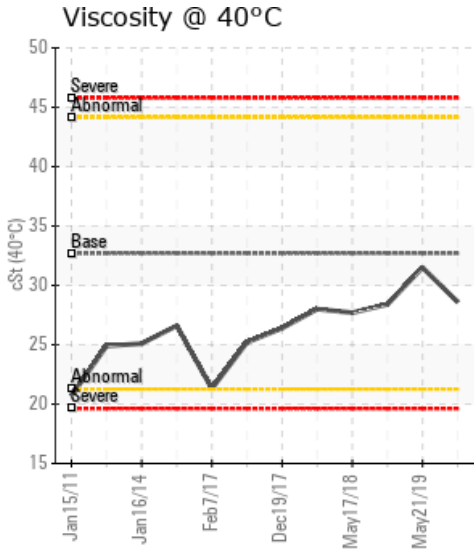
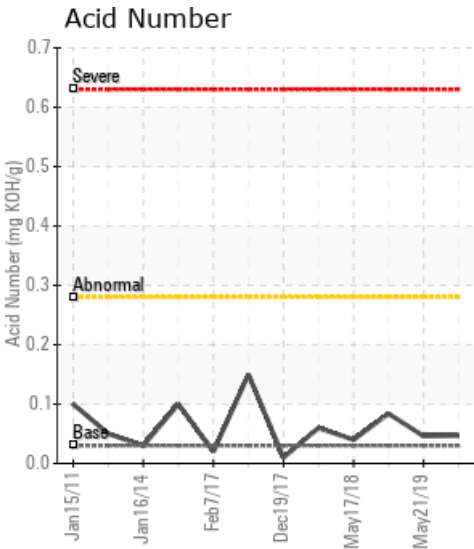
MODIFIED ROOM

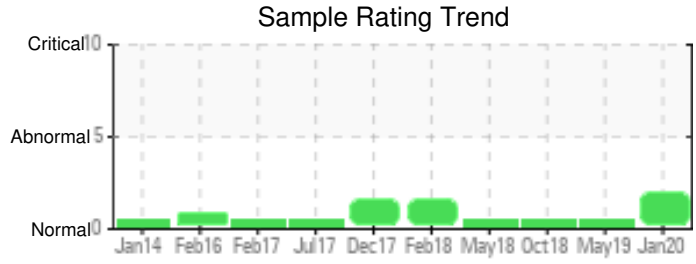
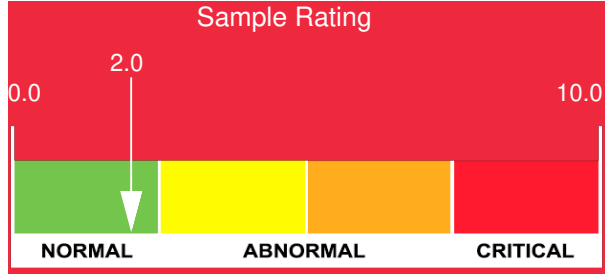
| Customer: PTRHTF10059 | System Information | Sample Information |
|--|---|---|
| CERTAINEED - SAINT GOBAIN 11519 US RT 250 N MILAN, OH 44846 USA Attn: DAVE BLAKELY Tel: (419)541-0843 E-Mail: dave.l.blakely@saint-gobain.com | System Volume: 320 gal Bulk Operating Temp: 480F / 249C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: FIRST THERMOL | Lab No: 02332558 Analyst: Gaston Arseneault Sample Date: 01/09/20 Received Date: 01/17/20 Completed: 01/24/20 |

Recommendation: The oil condition overall is good, it still has that light and clear appearance. The viscosity has dropped a bit and low boilers gone up a bit too even though the flash point remains strong. Resample at the next scheduled interval and if the low boilers and viscosity keep on trending this way we will recommend to do a vent off and replace volume losses with fresh oil.

Comments:

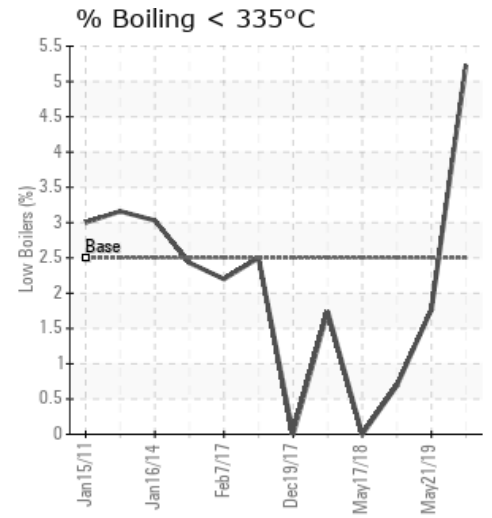
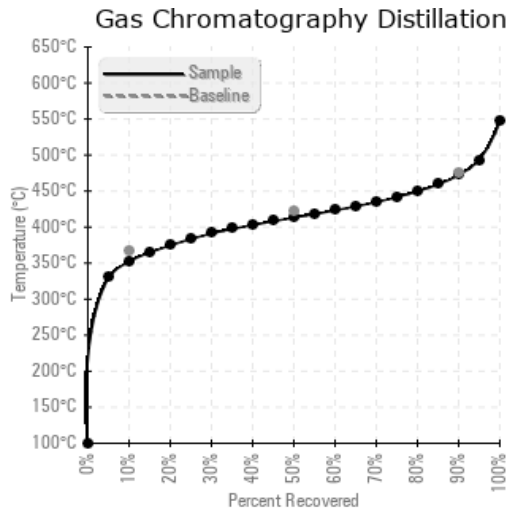
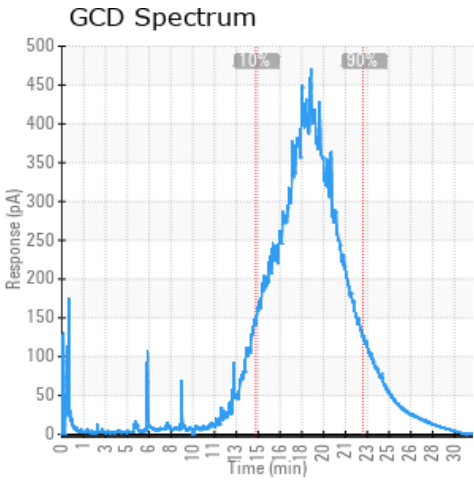
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|---------------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 01/09/20 | 01/17/20 | 3h | | 414 / 212 | 4.4 | 28.6 | 0.047 | 0.057 | 666 / 352 | 776 / 413 | 882 / 472 | 5.23 |
| 05/21/19 | 05/31/19 | 0h | | 410 / 210 | 9.2 | 31.5 | 0.046 | 0.008 | 687 / 364 | 790 / 421 | 898 / 481 | 1.77 |
| 10/11/18 | 10/24/18 | 0h | | 428 / 220 | 16.4 | 28.4 | 0.084 | 0.066 | 689 / 365 | 785 / 418 | 876 / 469 | 0.69 |
| 05/17/18 | 05/24/18 | 0h | LINE1 COATER RETURN | 421 / 216 | 7.4 | 27.7 | 0.04 | 0.044 | 676 / 358 | 757 / 403 | 873 / 467 | 0.00 |
| 02/28/18 | 03/13/18 | 0h | | 403 / 206 | 8.0 | 28.0 | 0.06 | 0.107 | 688 / 364 | 792 / 422 | 895 / 480 | 1.74 |
| 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 |
|----------------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 01/09/20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 |
| 05/21/19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 |
| 10/11/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 |
| 05/17/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 |
| 02/28/18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 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

| | |
|----------|---|
| 05/21/19 | Everything looks good, the fluid condition is great and degradation and contamination are not detected. |
| 10/11/18 | The condition looks good overall and we see no action needed at this time besides resampling in 6 months. |
| 05/17/18 | The last recommendation was to vent some of the low boilers out of the system. We're not sure if this was done but the flash point increased slightly. The condition looks good and we see no action needed at this time besides re-sampling in 6 months. |
| 02/28/18 | The viscosity improved a bit and judging by the increase in phosphorous we can conclude it's because some oil was added. The flash point improved too. Keep monitoring this fluid as we do not see any action items at this point |

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