

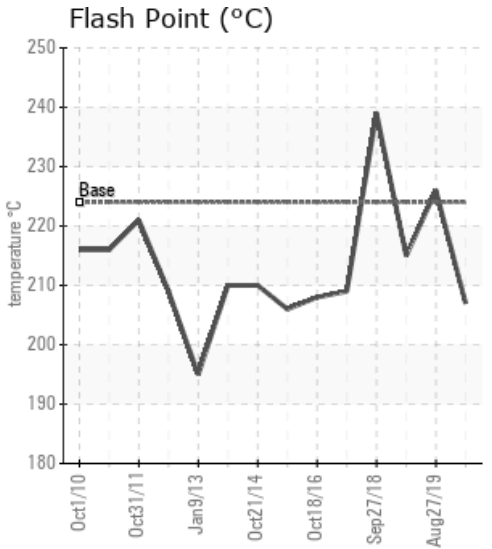
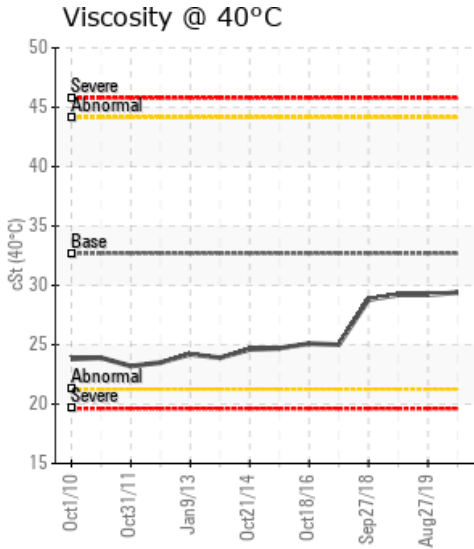
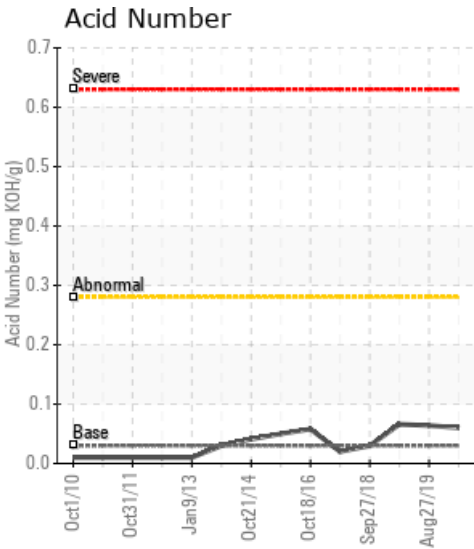
XST HOT OIL SYSTEM HEATING HTF

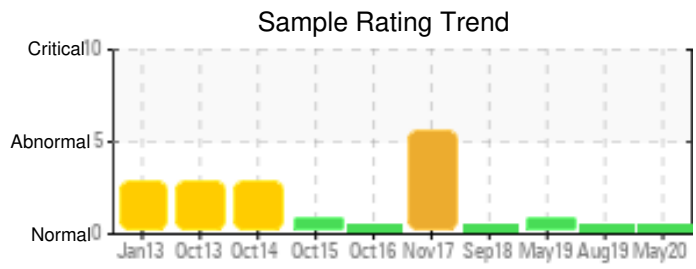
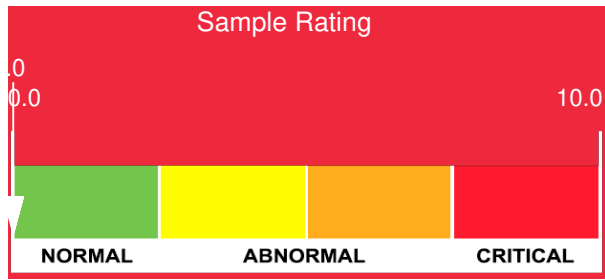
| Customer: PTRHTF10048 | System Information | Sample Information |
|--|--|--|
| MOMENTIVE PERFORMANCE MATERIAL 703 SOUTH STREET NEW SMYRNA BEACH, FL 32168 USA Attn: Don Pultz Tel: (386)409-5524 E-Mail: donald.pultz@momentive.com | System Volume: 100 gal Bulk Operating Temp: 305F / 152C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: SPALTECH | Lab No: 02353178 Analyst: Manny Garcia Sample Date: 05/05/20 Received Date: 05/11/20 Completed: 05/14/20 Manny Garcia manuel.garcia@petrocanadalsp.com |

Recommendation: Petro-Canada CALFLO AF Fluid is suitable for continued use. Please re-submit next sample in May 2021

Comments:

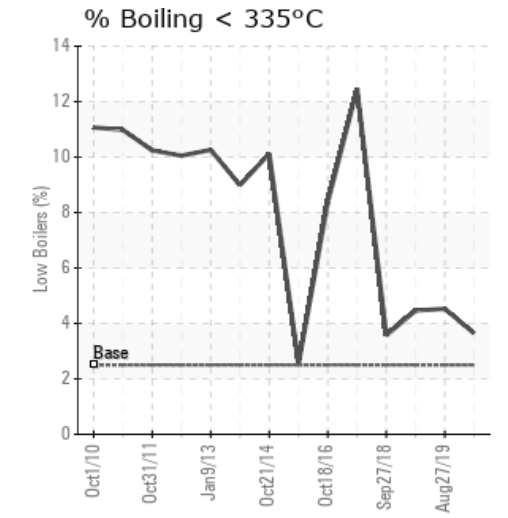
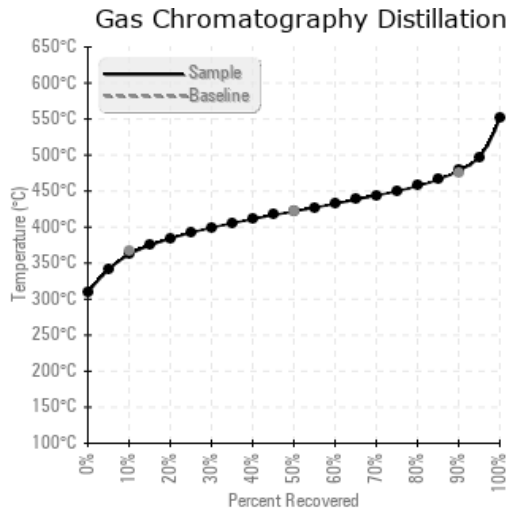
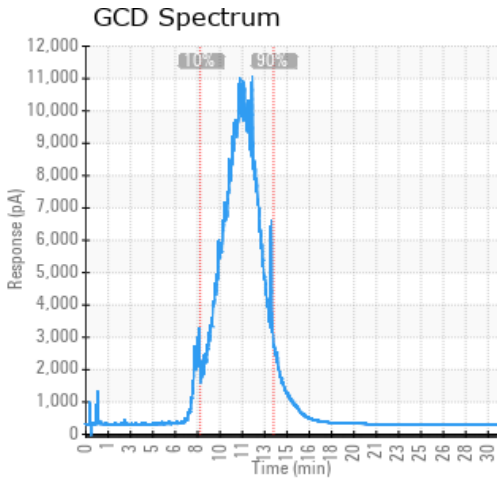
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 05/05/20 | 05/11/20 | 2y | CAMPLING PORT | 405 / 207 | 48.3 | 29.4 | 0.06 | 0.100 | 683 / 362 | 791 / 422 | 893 / 478 | 3.65 |
| 08/27/19 | 09/06/19 | 1y | PORT | 439 / 226 | 145.4 | 29.2 | 0.064 | 0.130 | 676 / 358 | 790 / 421 | 894 / 479 | 4.53 |
| 05/23/19 | 05/24/19 | 1y | XST SAMPLE PORT | 419 / 215 | 113.3 | 29.2 | 0.066 | 0.035 | 672 / 356 | 782 / 416 | 883 / 473 | 4.46 |
| 09/27/18 | 10/03/18 | 0y | | 462 / 239 | 3.7 | 28.8 | 0.03 | 0.037 | 677 / 358 | 781 / 416 | 878 / 470 | 3.57 |
| 11/02/17 | 11/13/17 | 9y | | 408 / 209 | 4.3 | 25.0 | 0.02 | 0.013 | 628 / 331 | 734 / 390 | 846 / 452 | 12.47 |
| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 05/05/20 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 276 | 2 |
| 08/27/19 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 276 | 2 |
| 05/23/19 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 263 | 2 |
| 09/27/18 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 263 | 2 |
| 11/02/17 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 266 | 2 |
| 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 | |
|---------------------|--|
| 08/27/19 | Sample is suitable for continued use. Please submit next sample on August 2020. Very light debris noticed in the fluid. During any shutdown periods, the fluid could be filtered thru a kidney loop system to eliminate any debris/contamination. Emulsified water noticed by the lab which should evaporate off during normal operation at these elevated operating temperatures. |
| 05/23/19 | Fluid is suitable for continued use. Please re-submit sample in May 2020. Fluid parameters appear to be in very satisfactory condition. Fluid appears to have a 'hazy' appearance and there is very lite debris present in the oil. Filtration of the fluid in the system during a safe 'down-time' could help in maintaining proper system cleanliness. |
| 09/27/18 | Fluid is suitable for continued use. Please include time on oil and component age when the next annual sample is sent September, 2019. The fluid condition has greatly improved in the last year between analysis. Continue to maintain the system in the same fashion for optimal results. |
| 11/02/17 | 'Venting' this system can assist in bringing the distillation points back in-line. Any maintenance done to mitigate these values should be followed up with another oil sample to our lab for verification. Very Low Wear Metals; Low contamination levels; 4.3ppm water level - low; Very low acid numbers; 25 CsT @ 40oC' (GCD) 90% Distillation Point is severely low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low. (GCD) 50% Distillation Point is marginally low. Pentane insolubles are low; Very Light debris visible; |

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