

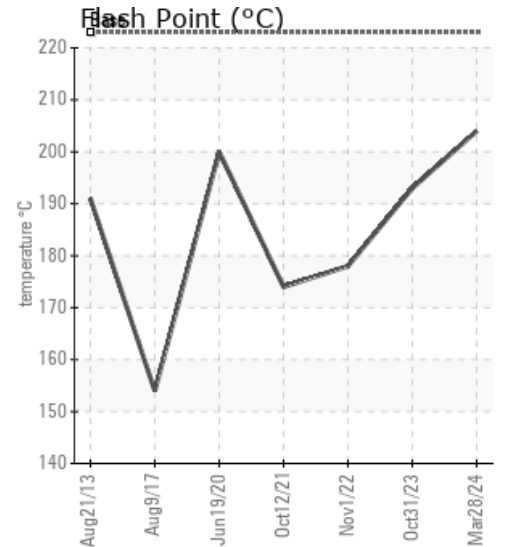
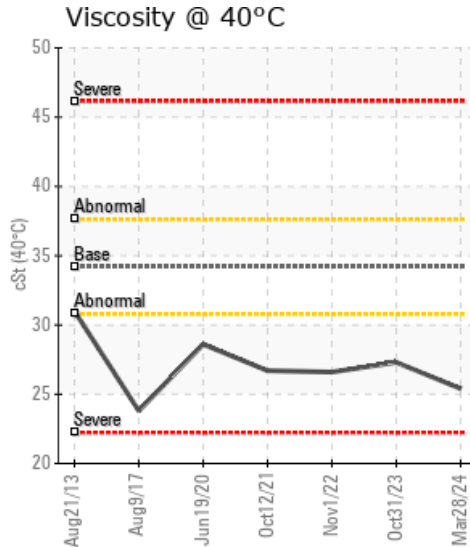
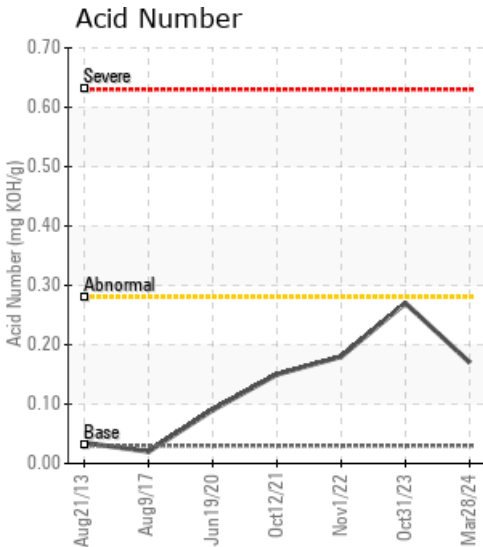
TPC1650LN

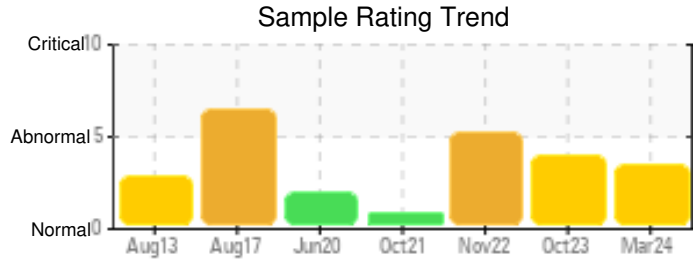
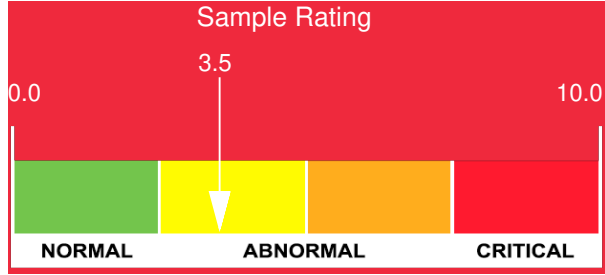
| Customer: PTRHTF40055 | System Information | Sample Information |
|--|---|--|
| MCCAIN APPETIZERS INDUSTRIEWEG 16 YERSEKE YERSEKE, 4401LB NL Attn: WILBERT SNIJERS Tel: E-Mail: w.snijers@klt.nl | System Volume: 6500 ltr Bulk Operating Temp: 509F / 265C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: WANSON | Lab No: 02626254 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 03/28/24 Received Date: 04/02/24 Completed: 04/10/24 Bill Quesnel CLS,OMA II,MLA-III,LLA-I |

Recommendation: The fluid is suitable for further service. Resample at the next service interval to monitor.

Comments: Pentane Insolubles levels are abnormally high. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.

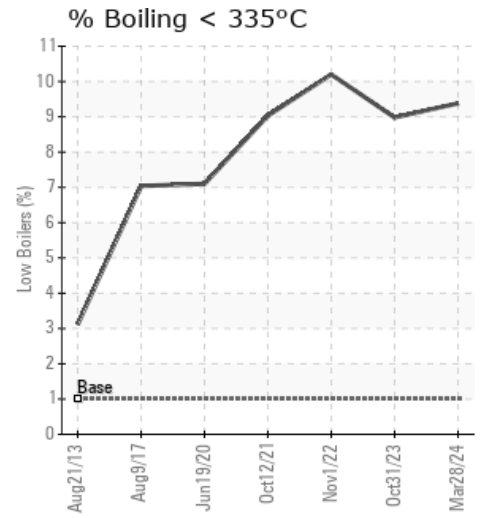
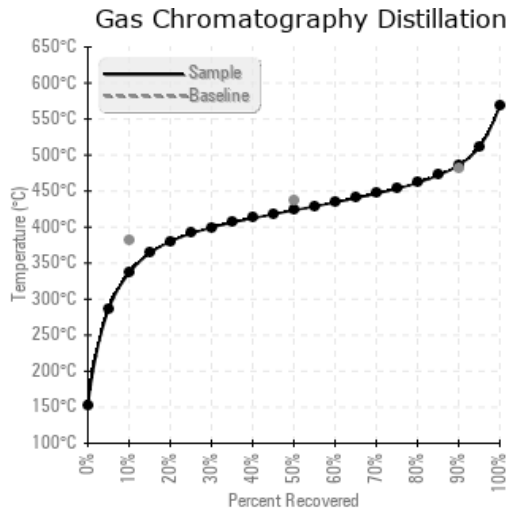
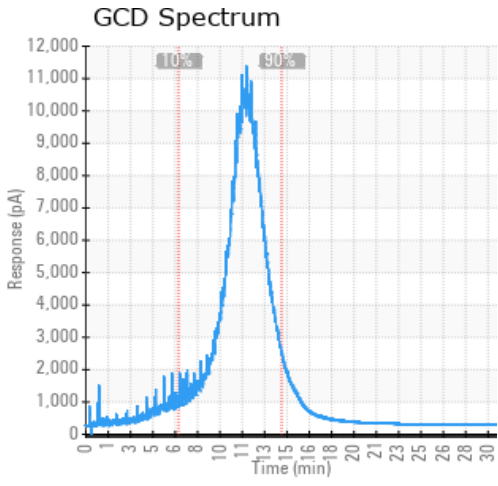
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 03/28/24 | 04/02/24 | 10.5y | | 399 / 204 | 35 | 25.4 | 0.17 | 0.782 | 637 / 336 | 794 / 423 | 906 / 486 | 9.38 |
| 10/31/23 | 11/06/23 | 10.0y | | 379 / 193 | 22.3 | 27.3 | 0.27 | 0.312 | 642 / 339 | 795 / 424 | 907 / 486 | 8.98 |
| 11/01/22 | 11/07/22 | 9.0y | | 352 / 178 | 18.1 | 26.6 | 0.18 | 0.362 | 627 / 330 | 795 / 424 | 913 / 489 | 10.20 |
| 10/12/21 | 10/20/21 | 12.0y | | 345 / 174 | 25.0 | 26.7 | 0.15 | 0.126 | 642 / 339 | 799 / 426 | 915 / 490 | 9.03 |
| 06/19/20 | 06/26/20 | 7.0y | | 392 / 200 | 10.6 | 28.6 | 0.09 | 0.152 | 666 / 352 | 801 / 427 | 913 / 490 | 7.10 |
| Baseline Data | | | | 433 / 223 | | 34.2 | 0.03 | | 720 / 382 | 817 / 436 | 900 / 482 | 1.00 |





| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 03/28/24 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/31/23 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11/01/22 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10/12/21 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06/19/20 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baseline Data | | | 0 | 0 | | | | | | 0 | | | 0 | 0 | | | | | 0 | | | | 0 | |

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments

| | |
|----------|---|
| 10/31/23 | Suggest that you attempt to vent off the low-boilers to increase the flash point. Resample at the next service interval. COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high. |
| 11/01/22 | Suggest that you attempt to vent off the low-boilers to increase the flash point. Resample at the next service interval. COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high. |
| 10/12/21 | Suggest that you attempt to vent off the low-boilers to increase the flash point. Resample at the next service interval. COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high. |
| 06/19/20 | (GCD) % < 335°C is marginally high. However Flash Point is on an appropriate level again. |

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