

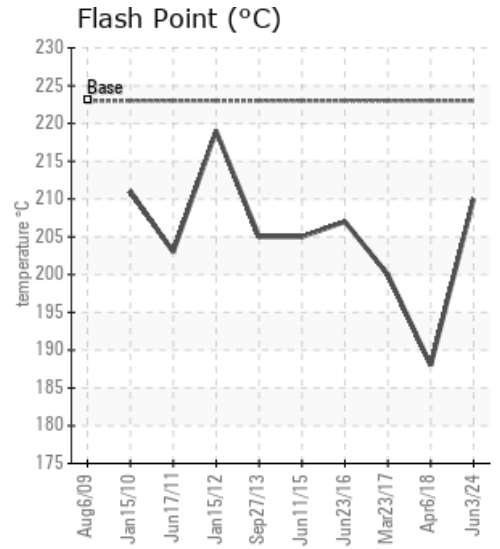
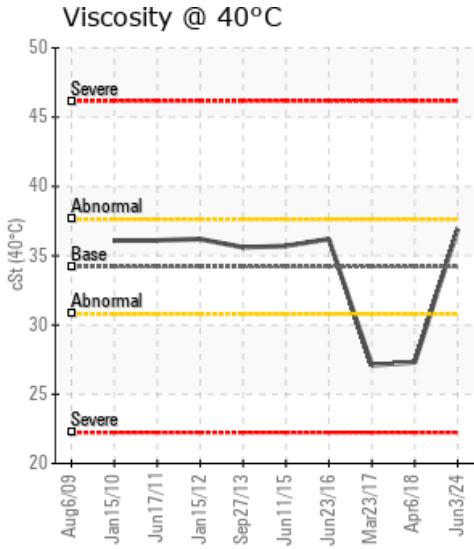
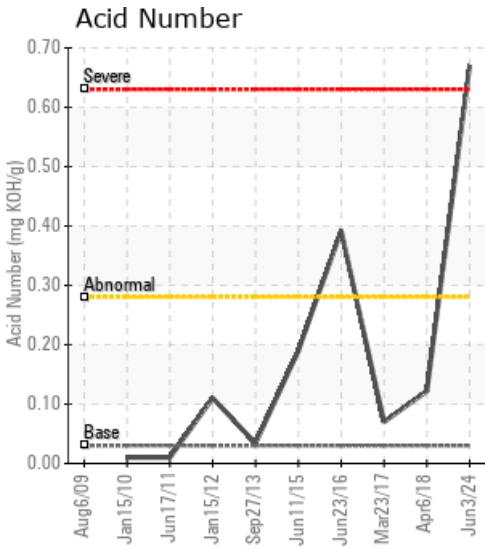
ASPHALT PLANT

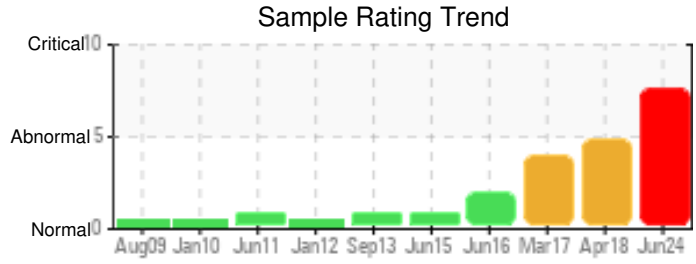
| Customer: PTRHTF10085 | System Information | Sample Information |
|--|--|---|
| LAKESIDE INDUSTRIES 2001 N.E. JOHNSON ROAD CENTRALIA, WA 98531 US Attn: Rafael Cuevas Tel: (360)508-0079 E-Mail: rafael.cuevas@lakesideindustries.com | System Volume: 500 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: GENCOR | Lab No: 02647254 Analyst: Ron LeBlanc Sample Date: 06/03/24 Received Date: 07/10/24 Completed: 07/17/24 Ron LeBlanc Ronald.LeBlancSr@HFSinclair.com |

Recommendation: Iron jumped from 1 ppm to 92 ppm. AN is severely high indicating oxidation which leads to sludge and hard deposits in the system. Pentane insolubles are also indicators of sludge and deposits in the system. It appears this sample might have been taken from a sampling valve/pipe that was not properly purged. Collect another sample from a well purged sample point before collecting.

Comments: PQ levels are abnormal. Iron ppm levels are noted. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high.

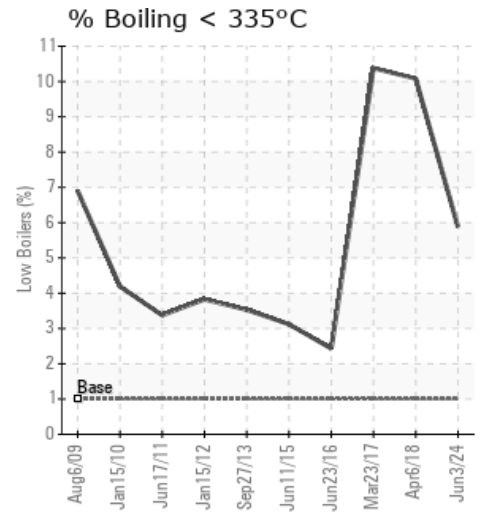
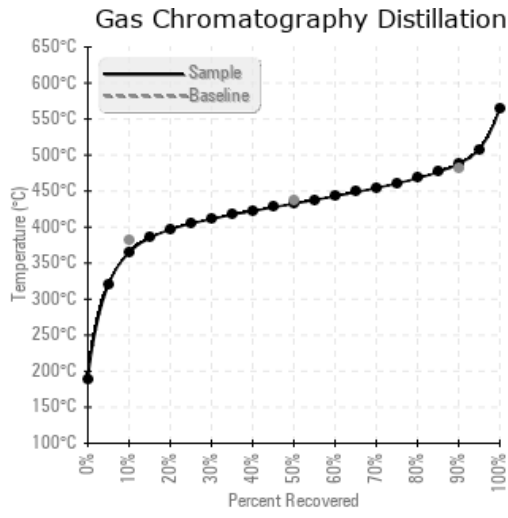
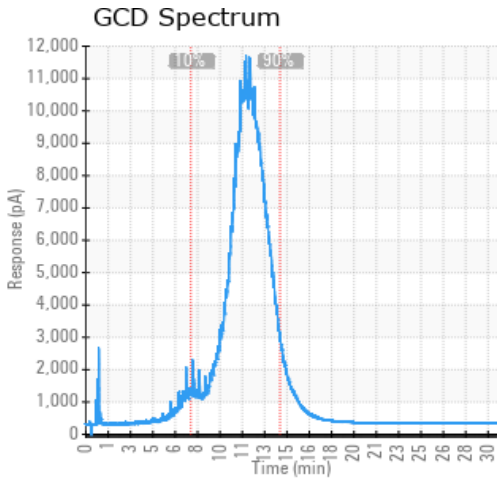
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|-----------------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 06/03/24 | 07/10/24 | 0.0y | top of filter housing | 410 / 210 | 188 | 36.9 | 0.67 | 1.88 | 689 / 365 | 811 / 433 | 910 / 488 | 5.88 |
| 04/06/18 | 04/19/18 | 1.5y | | 370 / 188 | 6.7 | 27.3 | 0.122 | 0.053 | 627 / 330 | 803 / 429 | 900 / 482 | 10.08 |
| 03/23/17 | 04/04/17 | 2.0y | FILTER HOUSING VENT | 392 / 200 | 99.7 | 27.1 | 0.07 | 0.100 | 623 / 328 | 803 / 429 | 901 / 483 | 10.38 |
| 06/23/16 | 07/11/16 | 8.0y | | 405 / 207 | 51.8 | 36.2 | 0.392 | 0.225 | 698 / 370 | 807 / 431 | 932 / 500 | 2.43 |
| 06/11/15 | 07/02/15 | 7.0y | RETURN LINE B4 FLTR | 401 / 205 | 16.8 | 35.7 | 0.19 | 0.122 | 698 / 370 | 815 / 435 | 920 / 493 | 3.12 |
| 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 | |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|---|
| 06/03/24 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04/06/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03/23/17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06/23/16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06/11/15 | 0 | 0 | 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

| | |
|----------|---|
| 04/06/18 | Flash point is becoming lower over past samples. The point at which the sample was taken can effect the quality of the sample. The amount of oil purged before sample was captured can effect the sample. Take another sample after a good amount of oil is purged. Also, the flash point can be raised by adding new oil and re-sample. (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is marginally high. COC Flash Point is marginally low. |
| 03/23/17 | Water increased from last sample(almost doubled. Sulfur elevated more than 3x's. (GCD) 10% Distillation Point is severely low. Make sure the sample point is purged well before drawing sample. Resample in 1 month to evaluate changes. (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is marginally high. |
| 06/23/16 | TAN, Viscosity and (GCD) 90% Distillation Point is abnormally high. Resample in 2 months. Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is abnormally high. |
| 06/11/15 | Sample appears normal. (GCD) 90% Distillation Point is marginally high. |

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