

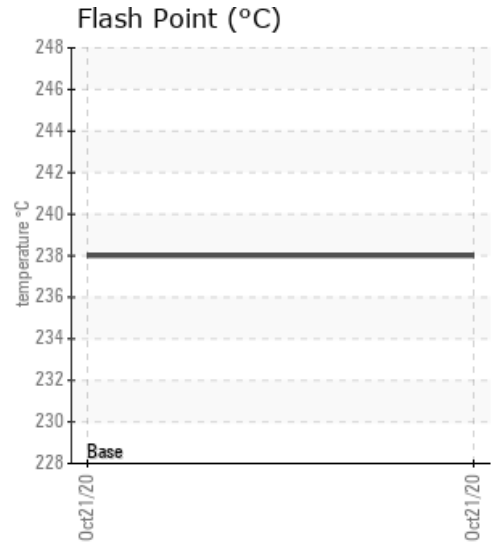
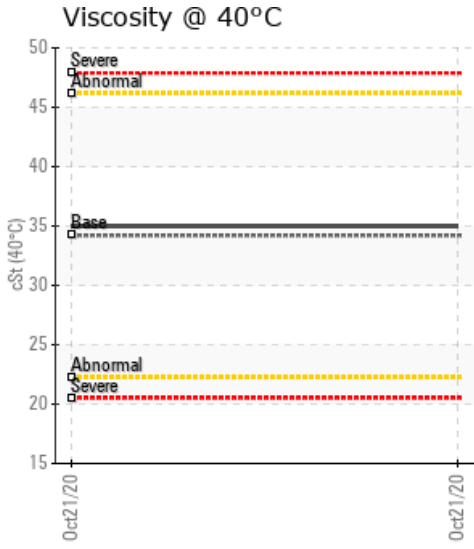
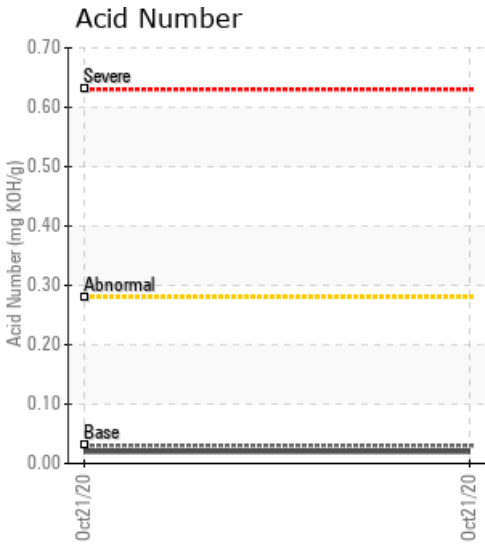
## [16-28-71-9 W6M] PIPESTONE NORTH

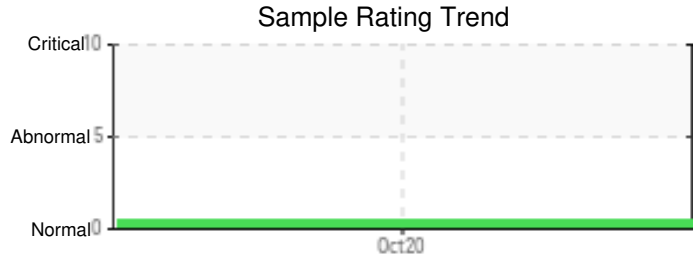
| Customer: PTRHTF20245   | System Information  | Sample Information  |
|---|---|---|
| NUVISTA ENERGY LTD<br>RR 93<br>WEMBLY, AB T8W 0H6 Canada<br>Attn: Eldon Weaver<br>Tel: (780)831-5603<br>E-Mail: eweaver@nvaenergy.com | System Volume: 65000 ltr<br>Bulk Operating Temp: 392F / 200C<br>Heating Source:<br>Blanket:<br>Fluid: PETRO CANADA PETRO-THERM<br>Make: HEATECH | Lab No: 02384153<br>Analyst: Clinton Buhler<br>Sample Date: 10/21/20<br>Received Date: 10/28/20<br>Completed: 11/02/20<br>Clinton Buhler<br>Clinton.Buhler@PetroCanadaLSP.com |

Recommendation: This sample is of new Petro-Therm in the Pipestone facility heater circulating without full system temperature. ISO particle count (Fluid Cleanliness) is at 24/22/17. All other parameters indicate fresh and healthy Petro-Therm. Please re-sample fluid after filtering is complete and after it has ran at operating temperature for at least 24 hours. For future samples, please indicate blanket gas pressure and time on oil.

Comments:

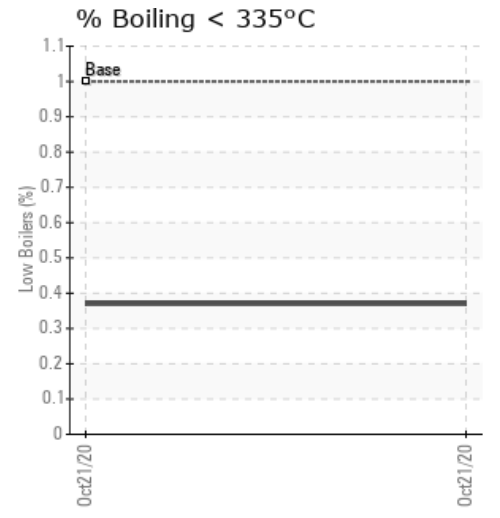
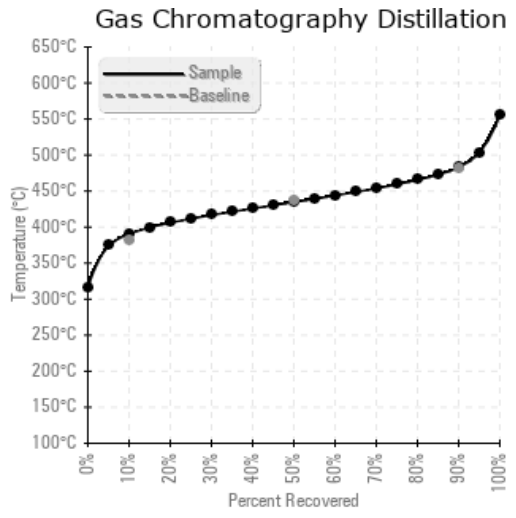
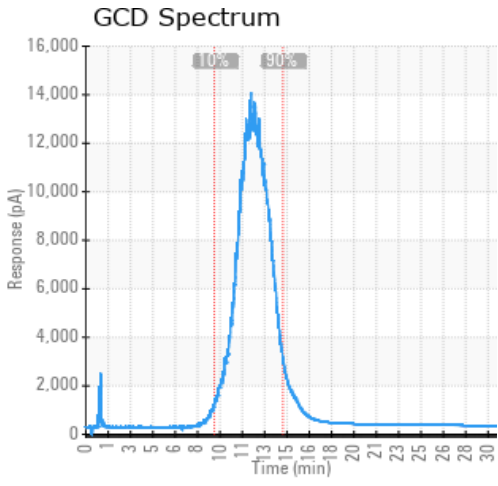
| Sample Date   | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10%   | GCD 50%   | GCD 90%   | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
|               | mm/dd/yy      |           |                 | °F/°C             | ppm        | cSt              | mg/KOH/g    | %wt    | °F/°C     | °F/°C     | °F/°C     | %             |
| 10/21/20      | 10/28/20      | 0y        |                 | 460 / 238         | 39.0       | 35.0             | 0.02        | 0.104  | 735 / 390 | 814 / 435 | 901 / 483 | 0.37          |
| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 10/21/20      | 0    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 2       | 0      | 2          | 2    |
| 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

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