

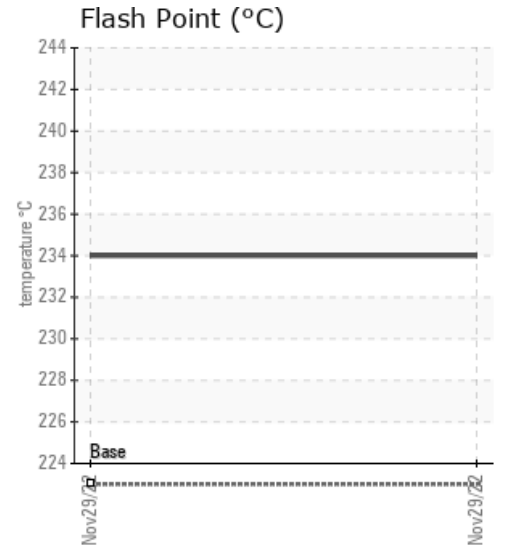
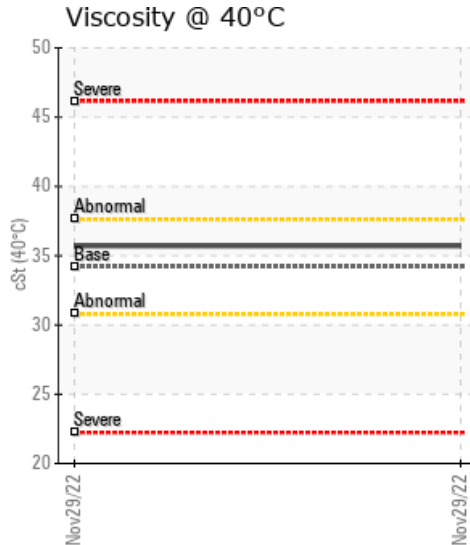
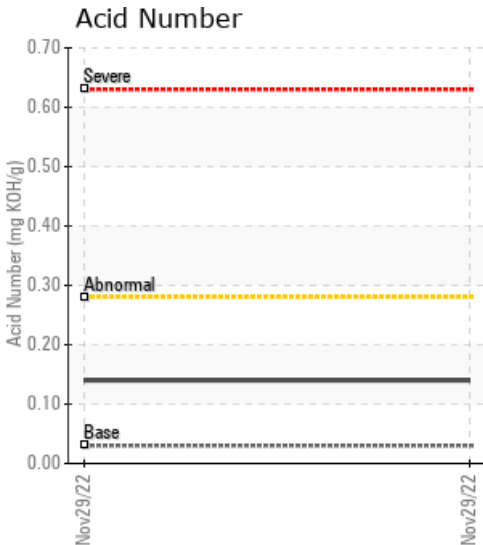
**[LSD: 1-29-57-21-W4] E901**

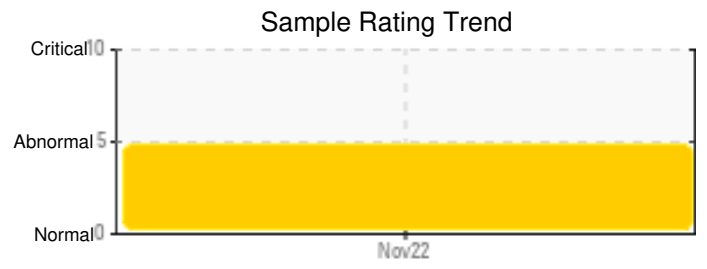
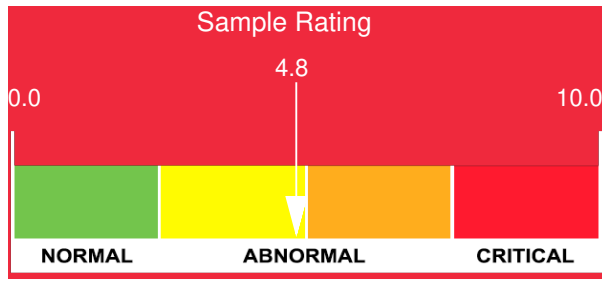
| Customer: PTRHTF20272  | System Information  | Sample Information  |
|--|---|---|
| CONIFER ENERGY<br>BOX 1050<br>REDWATER, AB T0A 1W0 Canada<br>Attn: Clint Lawrence<br>Tel: (780)221-0087<br>E-Mail: clint.lawrence@coniferenergy.ca | System Volume: 42000 ltr<br>Bulk Operating Temp: 378F / 192C<br>Heating Source:<br>Blanket:<br>Fluid: PETRO CANADA PETRO-THERM<br>Make: | Lab No: 02528514<br>Analyst: Terry Veenstra<br>Sample Date: 11/29/22<br>Received Date: 12/13/22<br>Completed: 01/03/23<br>Terry Veenstra<br>terry.veenstra@HFSinclair.com |

Recommendation: \*\*\* High amount of free water present in the sample (>5%). SimDist (GCD) analysis could not be performed  
 \*\*\*Ensure sample is representative of system and resample.

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     | %             |
| 11/29/22      | 12/13/22      | 6.0y      | hot oil pump P903 | 453 / 234         | 18.5       | 35.7             | 0.14        | 0.120  |           |           |           |               |
| Baseline Data |               |           |                   | 433 / 223         |            | 34.2             | 0.03        |        | 720 / 382 | 817 / 436 | 900 / 482 | 1.00          |

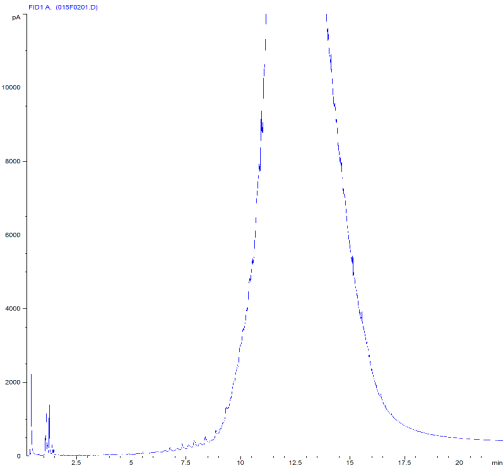




| Sample Date   | Iron | Chromium | Nickel | Aluminum | Copper | Lead | Tin | Cadmium | Silver | Vanadium | Silicon | Sodium | Potassium | Titanium | Molybdenum | Antimony | Manganese | Lithium | Boron | Magnesium | Calcium | Barium | Phosphorus | Zinc |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 11/29/22      | 5    | 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%]

**GCD Spectrum**



**Historical Comments**

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