

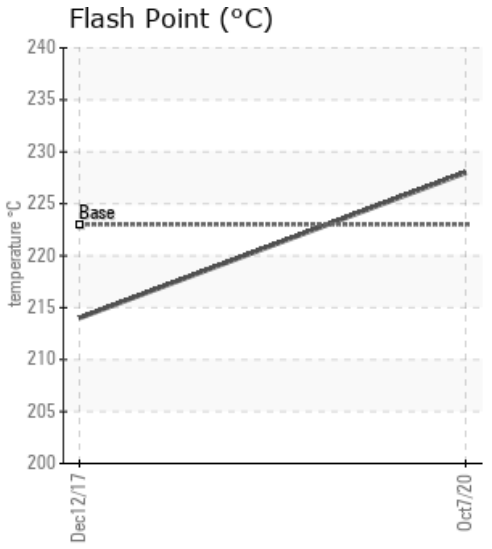
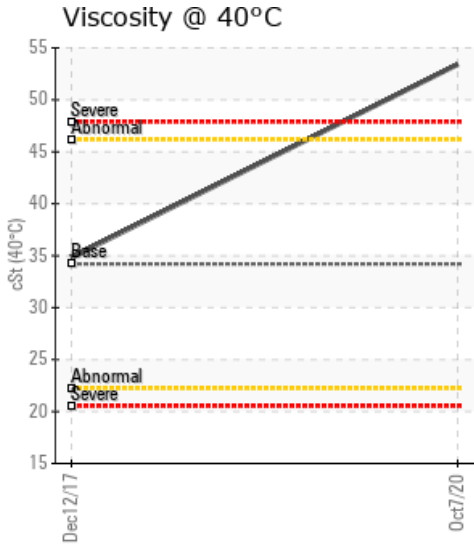
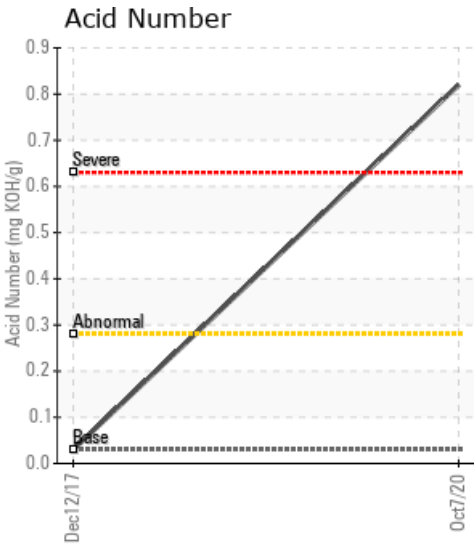
## [2-25-38-09W5] Z-730 STABILIZER

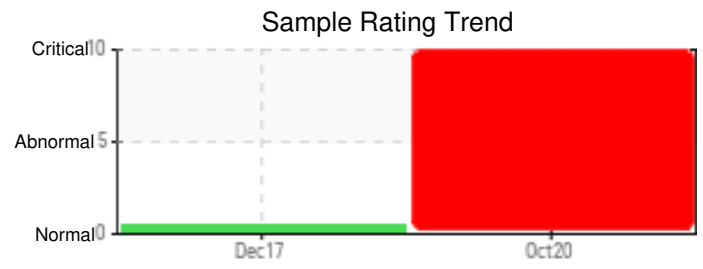
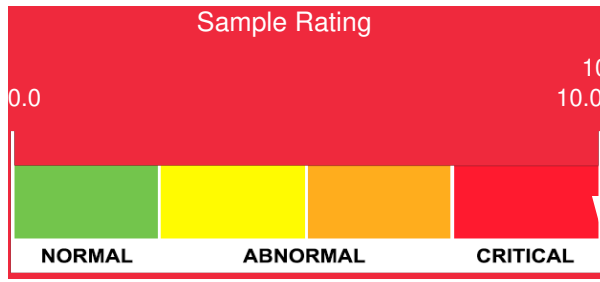
| Customer: PTRHTF20192  | System Information  | Sample Information  |
|--|---|---|
| Petrus Resources Corp<br>2400, 240 – 4th Avenue S.W.<br>02-25-38-9W5 Rocky Mountain House<br>Calgary, AB T2P 4H4 Canada<br>Attn: Jamin Severson<br>Tel: (403)844-0600<br>E-Mail: jseverson@petrusresources.com | System Volume: 5200 ltr<br>Bulk Operating Temp: 464F / 240C<br>Heating Source:<br>Blanket:<br>Fluid: PETRO CANADA PETRO-THERM<br>Make: ALCO | Lab No: 02380383<br>Analyst: Terry Veenstra<br>Sample Date: 10/07/20<br>Received Date: 10/08/20<br>Completed: 10/13/20<br>Terry Veenstra<br>terry.veenstra@petrocanadalsp.com |

Recommendation: Pentane Insolubles, Acid number and oil viscosity are high indicating thermal degradation is occurring. Ensure gas blanket is in place. Fluid may need to be changed out.

Comments: Iron ppm levels are severe. PQ levels are severe. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. Visc @ 40°C is severely high.

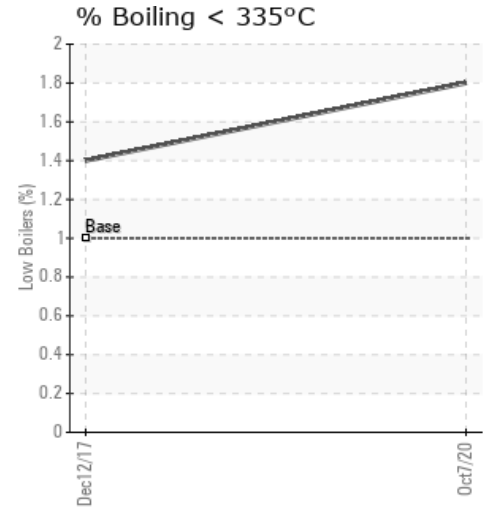
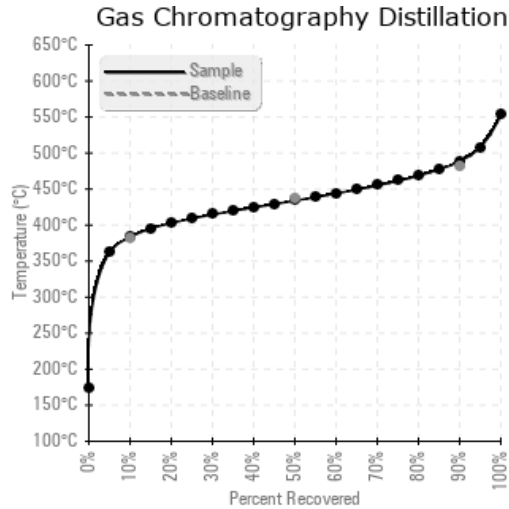
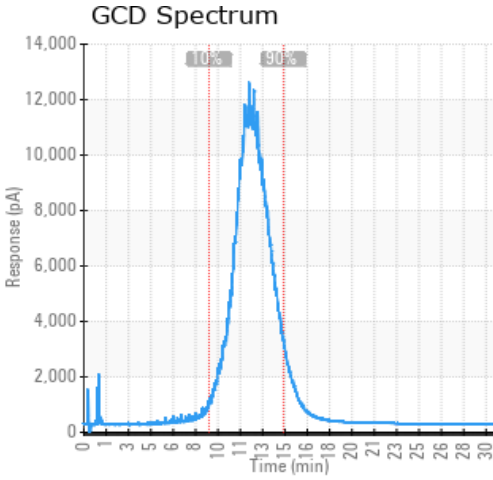
| Sample Date   | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10%   | GCD 50%   | GCD 90%   | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
|               | mm/dd/yy      |           |                 | °F/°C             | ppm        | cSt              | mg/KOH/g    | %wt    | °F/°C     | °F/°C     | °F/°C     | %             |
| 10/07/20      | 10/08/20      | 5y        | Bottom Drain    | 442 / 228         | 44.8       | 53.4             | 0.82        | 1.96   | 722 / 383 | 813 / 434 | 911 / 489 | 1.80          |
| 12/12/17      | 12/22/17      | 2y        |                 | 417 / 214         | 12.6       | 34.8             | 0.03        | 0.389  | 717 / 381 | 816 / 435 | 913 / 490 | 1.40          |
| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 10/07/20      | 461  | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 3       | 0      | 0         | 0        | 0          | 0        | 5         | 0       | 0     | 0         | 0       | 0      | 0          | 0    |
| 12/12/17      | 5    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 3       | 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

|          |  |
|----------|--|
| 12/12/17 | This is sample look good and fluid is good for continued use. Resample in 12 months. |
|          |  |
|          |  |
|          |  |
|          |  |

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