

[Westbrick Energy / 12-15-053-15W5] H810

Customer: PTRHTF20269
 WESTBRICK ENERGY
 UNIT 2 5050 50AVE
 DRAYTON VALLEY, AB T7A 1R8 CA
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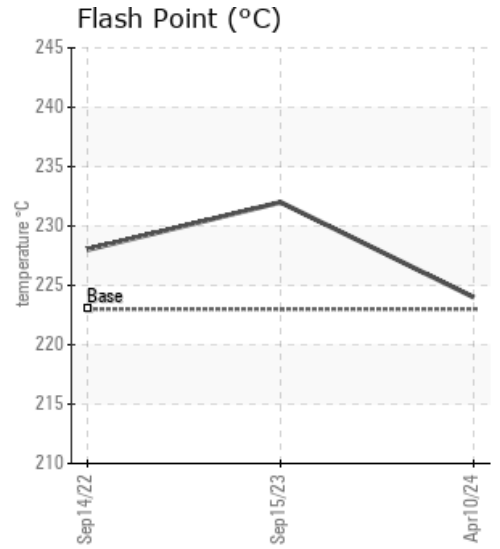
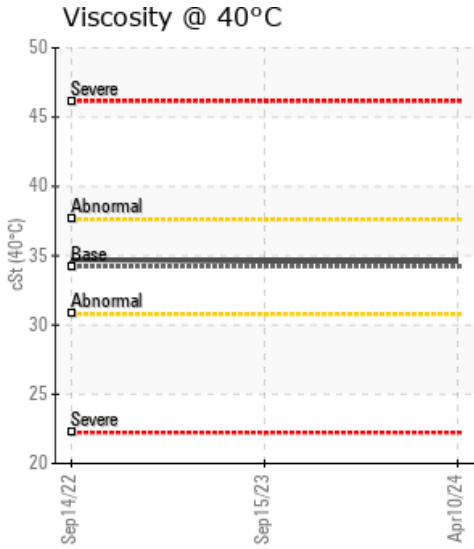
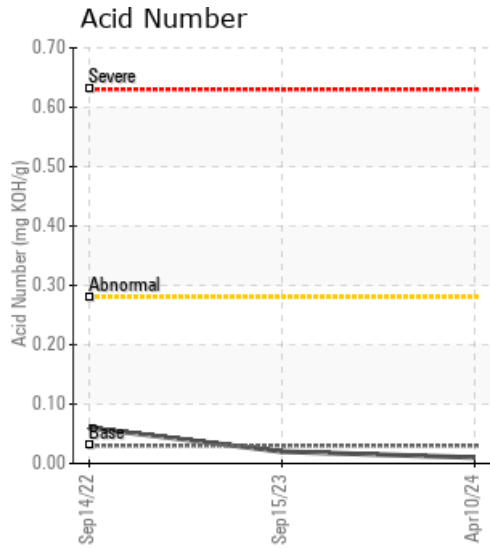
System Information
 System Volume: 7500 ltr
 Bulk Operating Temp: 543F / 284C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: HEATECH

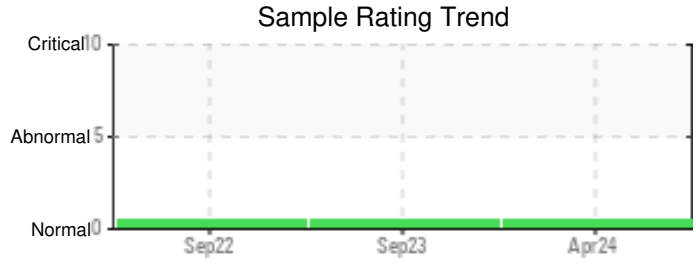
Sample Information
 Lab No: 02638313
 Analyst: Lyle Dach
 Sample Date: 04/10/24
 Received Date: 05/28/24
 Completed: 05/31/24
 Lyle Dach
 lyle.dach@HFSinclair.com

Recommendation: Sample results indicate that the fluid is in good condition and is suitable for continued service. Resample in 12 months.

Comments:

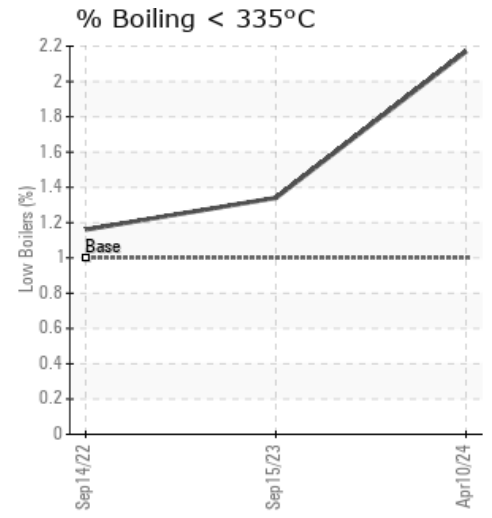
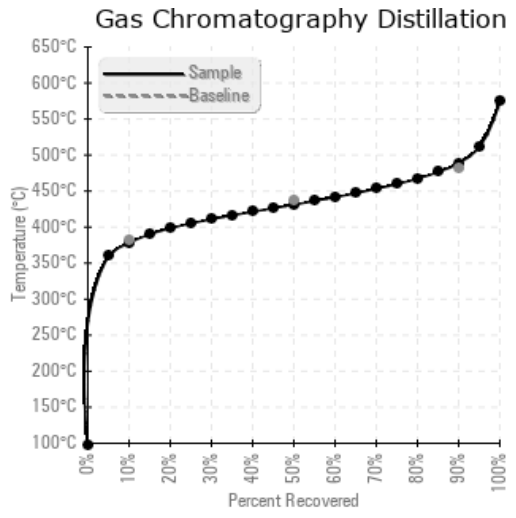
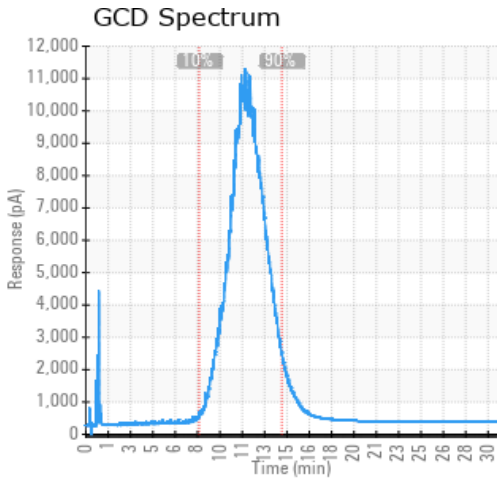
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|----------------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 04/10/24 | 05/28/24 | 0.0y | | 435 / 224 | 120 | 34.6 | 0.01 | 0.038 | 712 / 378 | 808 / 431 | 911 / 489 | 2.17 |
| 09/15/23 | 10/04/23 | 0.0y | | 450 / 232 | 16.7 | 34.6 | 0.02 | 0.065 | 720 / 382 | 813 / 434 | 914 / 490 | 1.34 |
| 09/14/22 | 11/03/22 | 3.0y | pump dischard | 442 / 228 | 10.5 | 34.7 | 0.06 | 0.020 | 724 / 385 | 812 / 433 | 908 / 486 | 1.16 |
| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 04/10/24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09/15/23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09/14/22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 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

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|----------|--|
| 09/15/23 | Sample results indicate the fluid is in excellent condition and is suitable for continued use. Resample in 12 months. |
| 09/14/22 | Sample results indicate that the fluid is in very good condition and is suitable for continued service. Resample in 12 months. |
| | |
| | |

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