

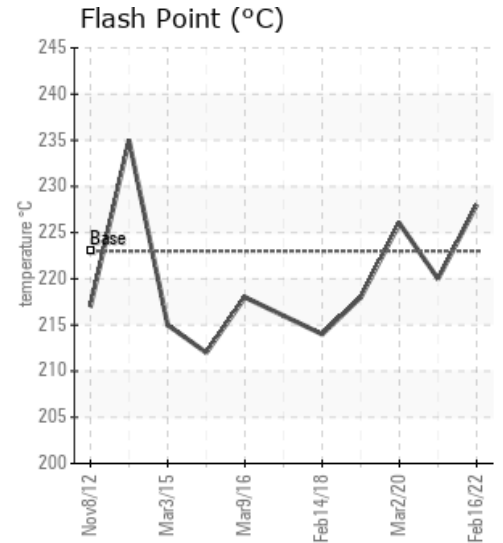
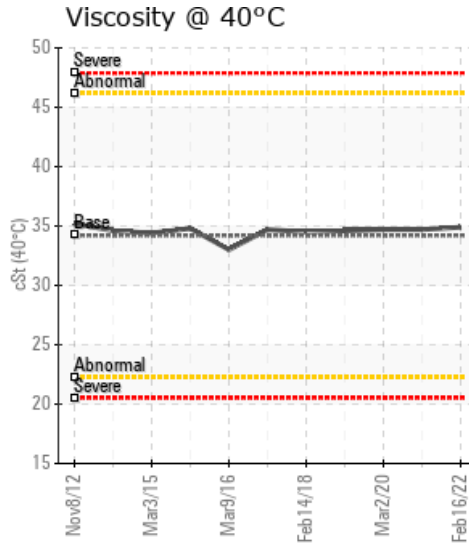
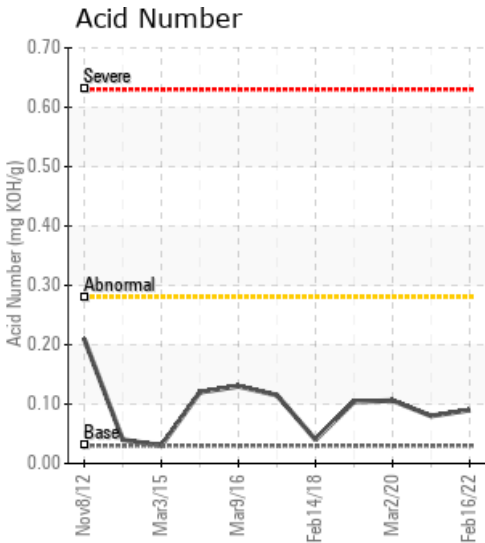
## UPPER TANK FARM

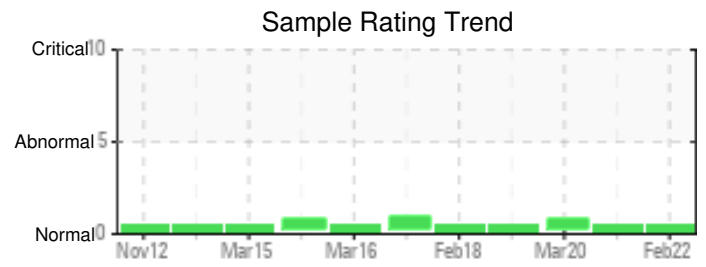
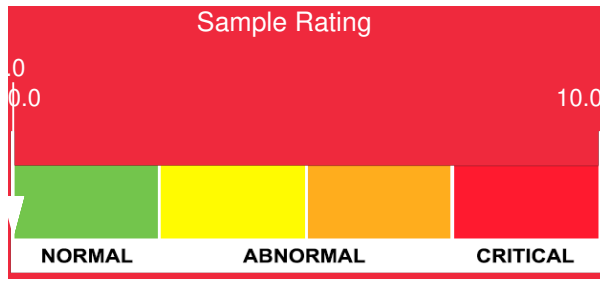
| Customer: PTRHTF10125  | System Information  | Sample Information   |
|--|---|--|
| TRANSMONTAIGNE<br>700 RIVER ROAD<br>COVINGTON, KY 41017 USA<br>Attn: Dwayne Gray<br>Tel: (859)331-0900<br>E-Mail: dgray@transmontaigne.com | System Volume: 2500 gal<br>Bulk Operating Temp: 300F / 149C<br>Heating Source:<br>Blanket:<br>Fluid: PETRO CANADA PETRO-THERM<br>Make: HEATEC INC | Lab No: 02477910<br>Analyst: Joe Goecke<br>Sample Date: 02/16/22<br>Received Date: 03/17/22<br>Completed: 03/21/22<br>Joe Goecke<br>Joe.goecke@hollyfrontier.com |

Recommendation: No issues with current sample. Continue use and resample next year.

Comments:

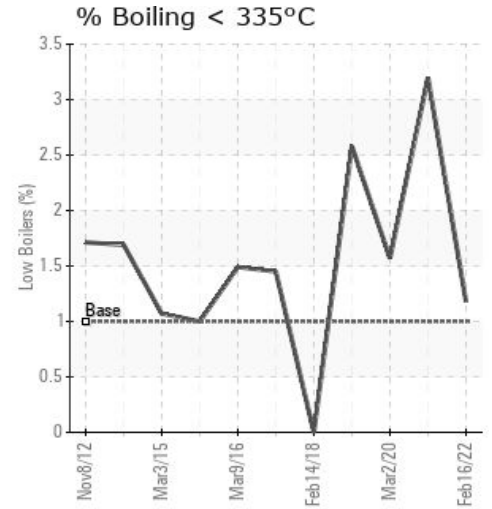
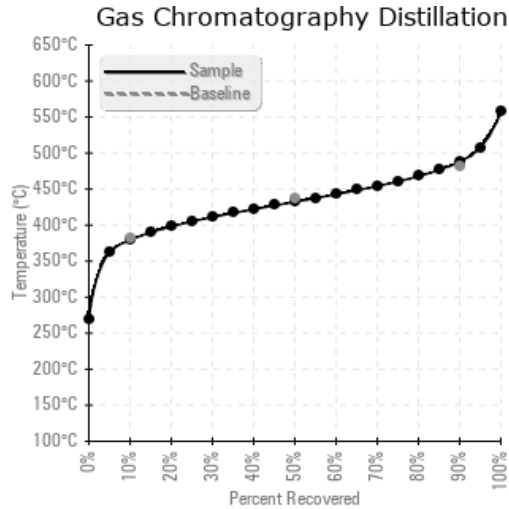
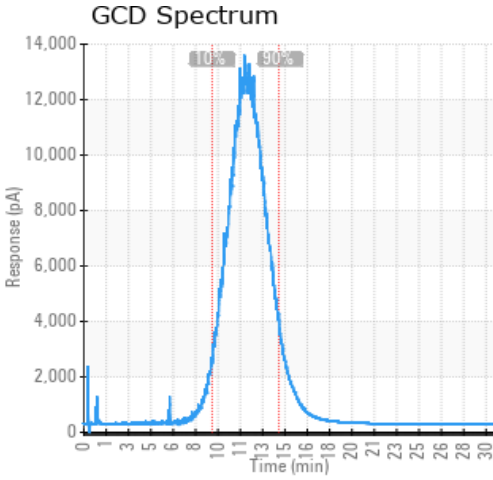
| Sample Date   | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10%   | GCD 50%   | GCD 90%   | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
|               | mm/dd/yy      |           |                 | °F/°C             | ppm        | cSt              | mg/KOH/g    | %wt    | °F/°C     | °F/°C     | °F/°C     | %             |
| 02/16/22      | 03/17/22      | 9.4y      |                 | 442 / 228         | 17.5       | 34.9             | 0.09        | 0.040  | 714 / 379 | 810 / 432 | 910 / 488 | 1.18          |
| 03/08/21      | 03/17/21      | 8.4y      | booster pump    | 428 / 220         | 22.3       | 34.7             | 0.08        | 0.094  | 694 / 368 | 795 / 424 | 906 / 486 | 3.20          |
| 03/02/20      | 03/09/20      | 7.3y      |                 | 439 / 226         | 8.4        | 34.7             | 0.106       | 0.054  | 705 / 374 | 818 / 437 | 929 / 498 | 1.57          |
| 02/26/19      | 02/27/19      | 6.3y      | BOOSTER PUMP    | 424 / 218         | 4.8        | 34.6             | 0.104       | 0.050  | 687 / 364 | 789 / 420 | 896 / 480 | 2.58          |
| 02/14/18      | 02/15/18      | 6.0y      |                 | 417 / 214         | 5.5        | 34.5             | 0.04        | 0.023  | 725 / 385 | 804 / 429 | 912 / 489 | 0.00          |
| 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 |
|----------------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 02/16/22             | 11   | 0        | 0      | 0        | 1      | 0    | 0   | 0       | 0      | 0        | 1       | 1      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 1       | 1      | 34         | 0    |
| 03/08/21             | 16   | 0        | 0      | 0        | 1      | 0    | 0   | 0       | 0      | 0        | 2       | 2      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 2       | 2      | 34         | 0    |
| 03/02/20             | 1    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 3       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 45         | 0    |
| 02/26/19             | 2    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 3       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 42         | 0    |
| 02/14/18             | 4    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 3       | 1      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 1      | 45         | 0    |
| <b>Baseline Data</b> |      |          | 0      | 0        |        |      |     |         |        | 0        |         |        | 0         | 0        |            |          |           |         | 0     |           |         |        | 0          |      |

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



### Historical Comments

|          |  |
|----------|--|
| 03/08/21 | Sample is in great condition continue to use and sample at next scheduled interval   |
| 03/02/20 | Sample is in excellent condition. Continue to use and resample at next regularly scheduled interval. (GCD) 90% Distillation Point is abnormally high.  |
| 02/26/19 | Oil is in very good condition. Slight increase in low boilers but well within limits of operation. Flash point and viscosity are excellent. Continue to use and resample at next scheduled interval. |
| 02/14/18 | Sample looks great. Continue to use and resample at next scheduled interval.   |

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