

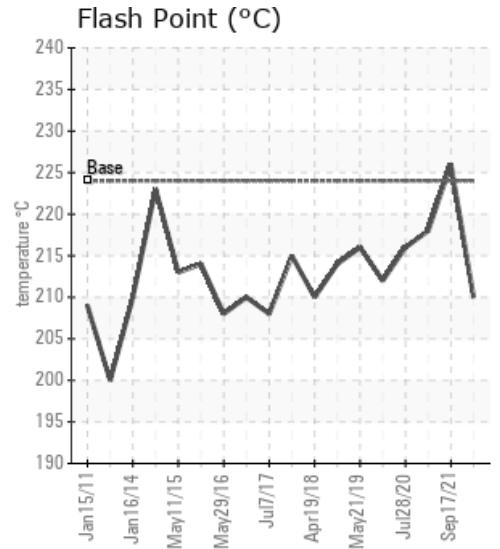
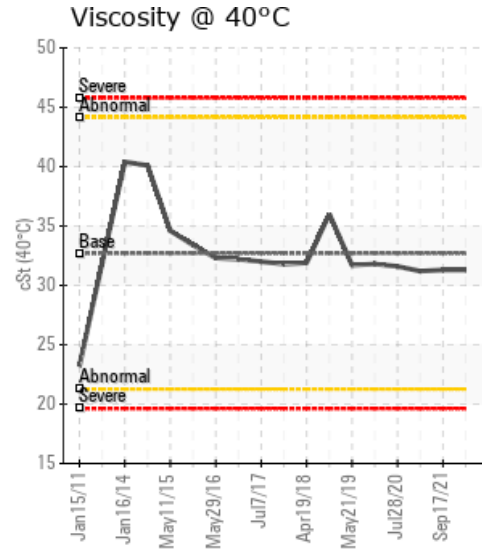
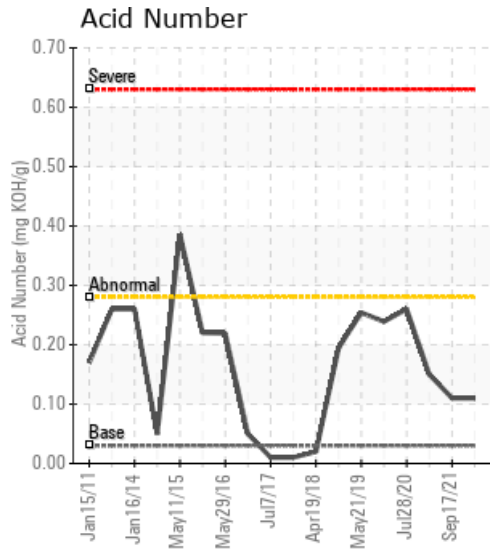
## LINE 2 HOT OIL SYSTEM

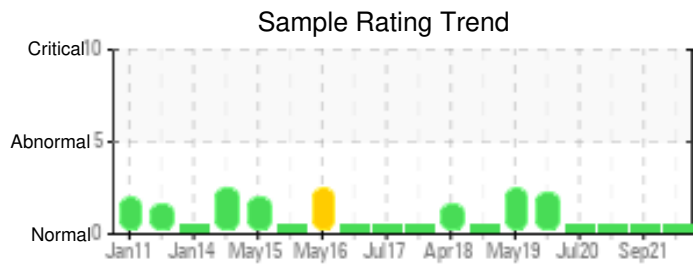
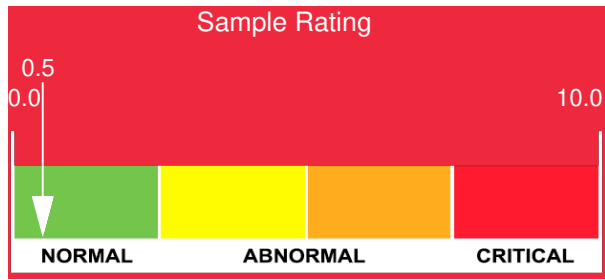
| Customer: PTRHTF10059  | System Information   | Sample Information   |
|--|--|--|
| CERTAINEED - SAINT GOBAIN<br>11519 US RT 250 N<br>MILAN, OH 44846 USA<br>Attn: DAVE BLAKELY<br>Tel: (419)541-0843<br>E-Mail: dave.l.blakely@saint-gobain.com | System Volume: 1265 gal<br>Bulk Operating Temp: 480F / 249C<br>Heating Source:<br>Blanket:<br>Fluid: PETRO CANADA CALFLO AF<br>Make: FIRST THERMOL | Lab No: 02473037<br>Analyst: Yvette Trzcinski<br>Sample Date: 01/12/22<br>Received Date: 02/18/22<br>Completed: 02/23/22<br>Yvette Trzcinski<br>yvette.trzcinski@hollyfrontier.com |

Recommendation: There has been some slight degradation as can be seen by the slight reduction in flash point and increase in the insolubles but viscosity, flash point, GCD boiling points and solids (pentane insolubles) are within specification and acceptable for continued service. Resample in 6-12 months

Comments:

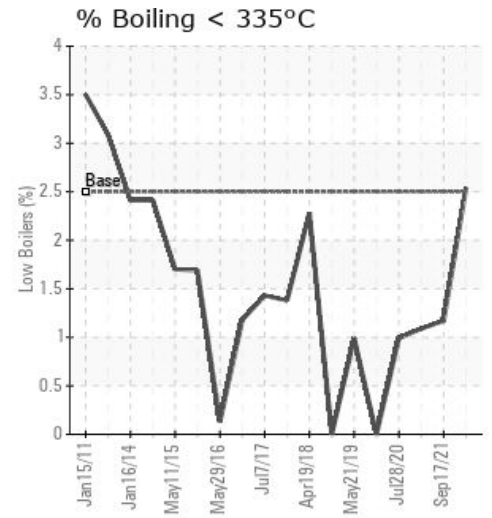
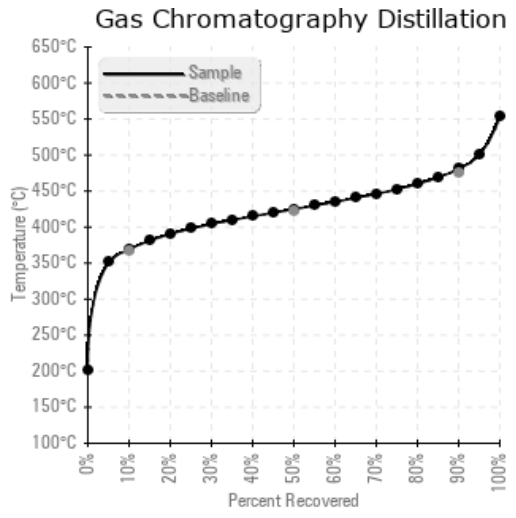
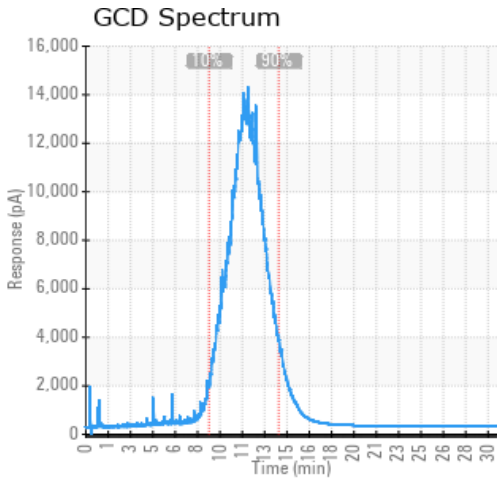
| Sample Date   | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10%   | GCD 50%   | GCD 90%   | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
|               | mm/dd/yy      |           |                 | °F/°C             | ppm        | cSt              | mg/KOH/g    | %wt    | °F/°C     | °F/°C     | °F/°C     | %             |
| 01/12/22      | 02/18/22      | 0.0y      | sample port     | 410 / 210         | 10.9       | 31.3             | 0.11        | 0.136  | 697 / 369 | 797 / 425 | 897 / 481 | 2.54          |
| 09/17/21      | 10/05/21      | 0.0y      | SAMPLE PORT     | 439 / 226         | 18.8       | 31.3             | 0.11        | 0.114  | 704 / 373 | 799 / 426 | 899 / 482 | 1.17          |
| 01/04/21      | 01/19/21      | 0.0y      | Sample Port     | 424 / 218         | 11.0       | 31.2             | 0.15        | 0.124  | 705 / 374 | 799 / 426 | 900 / 482 | 1.09          |
| 07/28/20      | 08/05/20      | 24.0y     | FILTER DRAIN    | 421 / 216         | 20.7       | 31.6             | 0.26        | 0.090  | 707 / 375 | 800 / 426 | 898 / 481 | 0.99          |
| 01/09/20      | 01/17/20      | 0.0y      |                 | 414 / 212         | 5.9        | 31.8             | 0.239       | 0.130  | 707 / 375 | 787 / 420 | 881 / 471 | 0.00          |
| Baseline Data |               |           |                 | 435 / 224         |            | 32.7             | 0.03        |        | 693 / 367 | 790 / 421 | 887 / 475 | 2.5           |





| 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 |
|----------------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 01/12/22             | 0    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 30         | 0    |
| 09/17/21             | 0    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 33         | 0    |
| 01/04/21             | 1    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 34         | 0    |
| 07/28/20             | 1    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 36         | 0    |
| 01/09/20             | 0    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 42         | 0    |
| <b>Baseline Data</b> |      |          | 0      | 0        |        |      |     |         |        | 0        |         |        | 0         | 0        |            |          |           |         | 0     |           |         |        | 270        |      |

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



### Historical Comments

|          |   |
|----------|---|
| 09/17/21 | All the sample specifications flash point, viscosity, acid number, solids and GCD results are within specifications sample fluid is acceptable for continued service. Resample in 12 months   |
| 01/04/21 | The fluid does appear to have some degradation occurring, but the acid number has not increased from the last sample and the viscosity has remained consistent and oil specifications are all within acceptable limits. Resample at the next interval |
| 07/28/20 | The oil looks very good the viscosity, acid number and flash point are all looking very good and similar to the sample at the beginning of the year - very low solids - resample at the next interval   |
| 01/09/20 | The condition of the oil is virtually unchanged since May 2019. all properties are normal. Keep up the good work and sample at next scheduled interval  |

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