

## FILLER HEATER

## Customer: PTRHTF10068

Certainteed - Saint Gobain 1064 PLEASANT ST NORWOOD, MA 02062 US

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## System Information

System Volume: 2200 gal

Bulk Operating Temp: 550F / 288C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF Make: PERFORMANCE HEATING

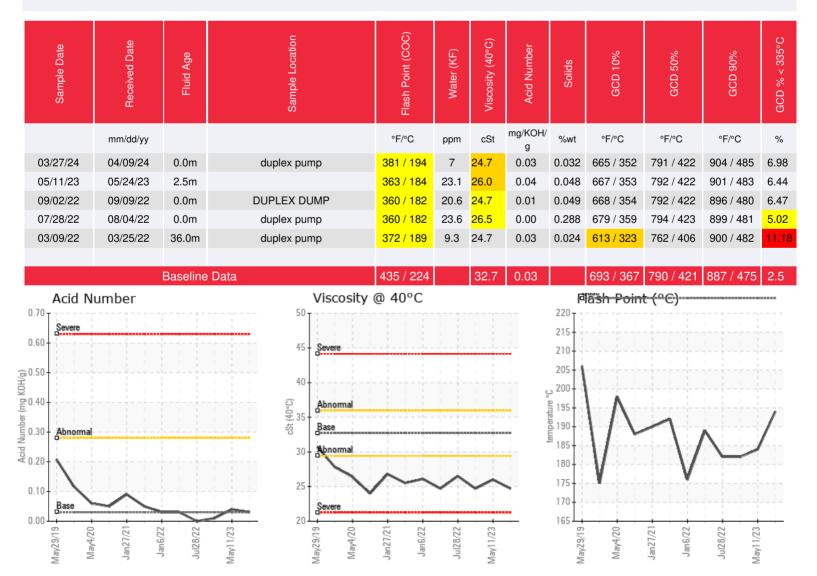
## Sample Information

Lab No: 02627757 Analyst: Greg Fernandez Sample Date: 03/27/24 Received Date: 04/09/24 Completed: 04/17/24 Greg Fernandez

gregory.fernandez@hfsinclair.com

Recommendation: The sample fluid is in good overall condition with no abnormal degradation or contamination noted. Distillation points are also representative of a fluid that is suitable for continued service.

Comments: The only items that merit further monitoring are the marginally low Flash Point, and an abnormally low viscosity. Although the fluid is suitable for continued service, if the viscosity continues to drop, it may be worth considering draining off some fluid and topping off with fresh Calflo AF to raise the viscosity back to an acceptable value.





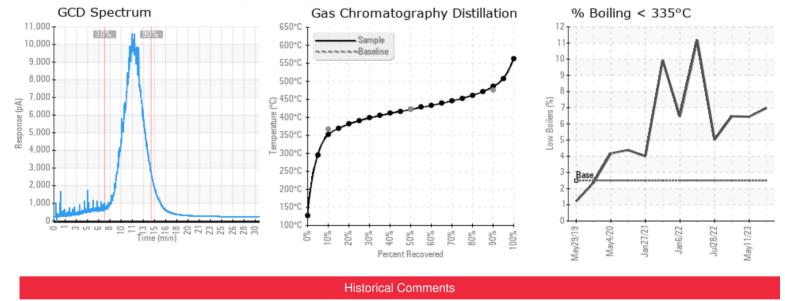
Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

05/11/23

09/02/22

07/28/22

03/09/22



While the flash point remains consistent there is rise in low boilers above 10% and the viscosity has dropped to a 22 grade. I recommend planning to vent the system soon to improve these conditions. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high. COC Flash Point is marginally low.

perhaps venting of the system. Continue operating the system as normal until the next sample interval. Visc @ 40°C is abnormally low. COC Flash Point is marginally low.

The sample reports in good overall condition with no low boilers, debris, water, or insolubles. Visc @ 40°C is slightly low but actually higher than the previously reported value. COC Flash Point is also marginally low and also slightly improved over the previously reported value. The fluid is suitable for continued service.

The results from laboratory testing for this sample indicate that the sample is in generally good condition and suitable for continued service. Acid Number and GCD results are good, whereas Viscosity and Flash are slightly low, but certainly acceptable for continued use. Recommend to resample at next regular sample

Overall sample condition looks good and appears to have some improvement over the previous sample. Low boilers have dropped per GCD %<335C and perhaps indicate that the system has been vented since the previous sample. Pentane Insolubles have also increased significantly since the last sample. This could be related to a maintenance event,

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testing interval. COC Flash Point is marginally low. Viscosity also slightly low for this ISO grade fluid.