

## **APP-TOX**

## Customer: PTRHTF10059

CERTAINTEED - SAINT GOBAIN 11519 US RT 250 N MILAN, OH 44846 USA Attn: DAVE BLAKELY

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## **System Information**

System Volume: 8875 gal

Bulk Operating Temp: 500F / 260C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: JOHN ZINK

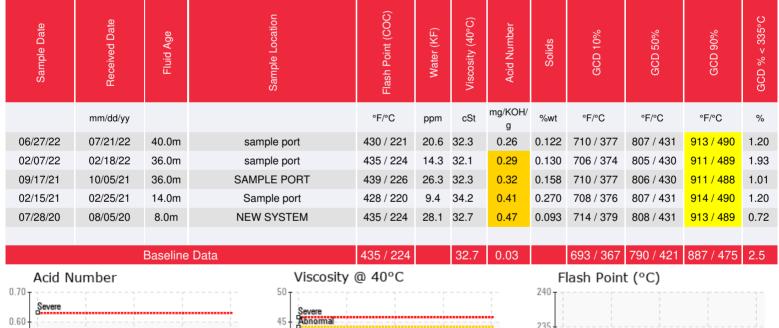
## Sample Information

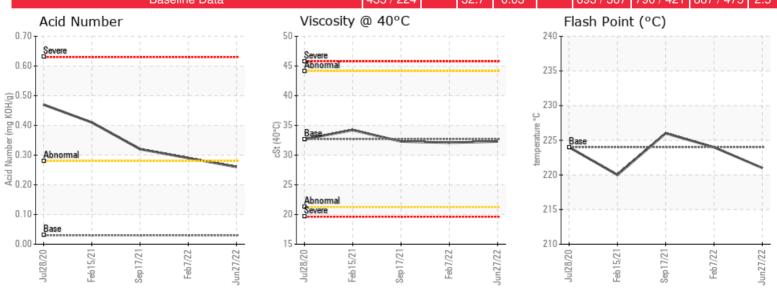
Lab No: 02501224 Analyst: Yvette Trzcinski Sample Date: 06/27/22 Received Date: 07/21/22 Completed: 07/25/22 Yvette Trzcinski

yvette.trzcinski@hollyfrontier.com

Recommendation: The GCD boiling point at 90% has increased slightly but the flash point, viscosity and acid number all look very good the fluid is acceptable for continued service. Resample at the next service interval

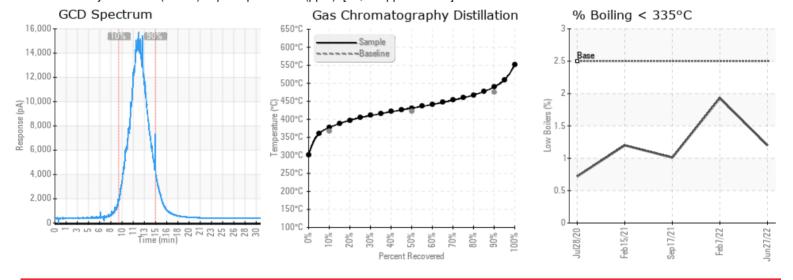
Comments: (GCD) 90% Distillation Point is marginally high.







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



Historical Comments	
02/07/22	Flash point, GCD boiling points, solids and viscosity as well as acid number have remained consistent from the last sample. In large systems when acid number is around 0.3 we recommend sweetening the system with new fluid. resample in 6 months Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is marginally high.
09/17/21	Flash point and viscosity are within acceptable ranges, the acid number has improved from the last sample as well as the solids amount - looks like there was some make up added to the system. The GDC 90% is slightly high but is fairly consistent over the last 3 samples. Product is acceptable for continued use and resample in 6 - 12 months Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is marginally high.
02/15/21	The total acid number is high but the acid number and GCD 90% and flash point have remained consistent from the last sample. The solids have more than doubled and there is a slight increase in viscosity which could be due to degradation in the system and contamination. Continue to monitor and resample in 6 months
07/28/20	This is a new system that was brought on line in December 2019 - filled with new Calflo AF heat transfer oil. The total acid number is very high for oil that has been in service for 7 - 8 months. The viscosity flash point are acceptable for service. the system was not flushed before filling with the fluid, please resample in 3-4 months to monitor the system Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is marginally high.

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