

SYSTEM #2

Customer: PTRHTF10073

SHEPHERD COLOR 4539 DUES DRIVE CINCINNATI, OH 45246 US

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System Information

System Volume: 1000 gal

Bulk Operating Temp: 420F / 216C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: FIRST THERMAL

Sample Information

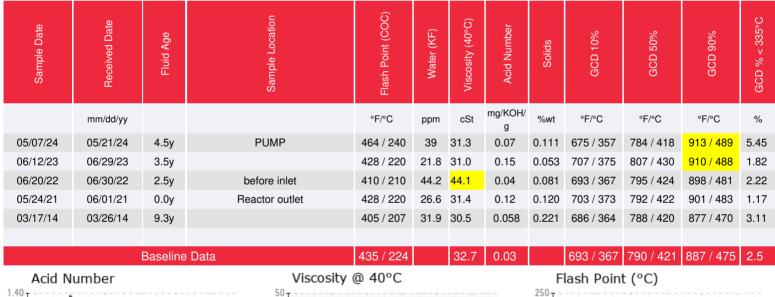
Lab No: 02636810 Analyst: Joe Goecke Sample Date: 05/07/24 Received Date: 05/21/24 Completed: 05/27/24

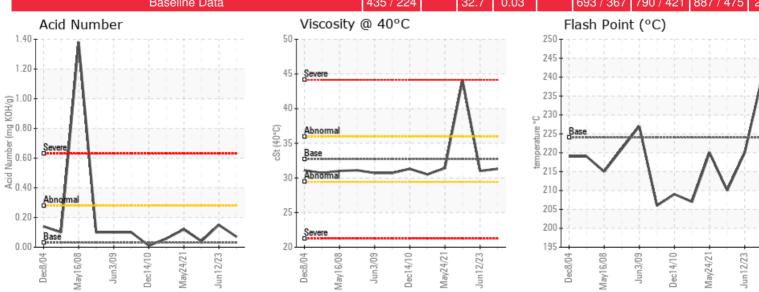
Joe Goecke

Joe.goecke@HFSinclair.com

Recommendation: Unusual level of sodium. Suggest investigating possible sources of contamination, salt from winter, or other chemical that contains sodium at the plant that could get into the system. Other parameters look normal and system can be used until nest sample period.

Comments: Sodium ppm levels are severely high. (GCD) 90% Distillation Point is marginally high.



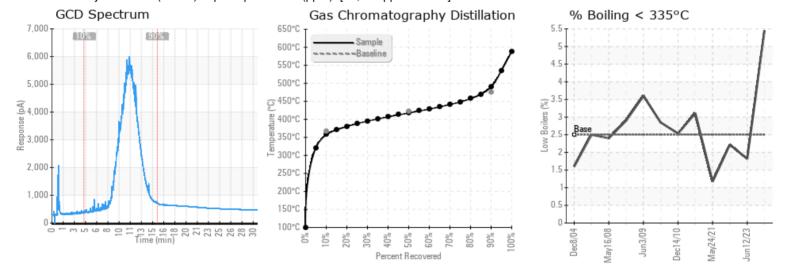




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

0

Baseline Data



Historical Comments	
06/12/23	Fluid is in great shape. Viscosity back to a normal level, water is down as is dirt. Continue to operate as normal and resample next year. (GCD) 90% Distillation Point is marginally high.
06/20/22	Sample looks very good and similar to last sample. Viscosity made an unusual jump up 13 points. We are rechecking to confirm this number. All other parameters are very good, continue to use and resample at next scheduled interval.
05/24/21	System slightly high in sodium but not too bad. Flash point viscosity and low boilers all in great shape. Continue to use and resample at regular schedule. Sodium ppm levels are abnormally high.
03/17/14	contamination with coolant appears to be slightly worse. Iron wear has increased slightly. The source on ingress needs to be identified and eliminated. Sample at 1/2 interval Sodium ppm levels are severely high.

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