

[JEREMY MOWRY] WEST SYSTEM

Customer: PTRHTF10182

American Cast Iron Pipe Co. 1501 31st Avenue North Birmingham, AL 35207 USA

Attn: Jeremy Mowry Tel: (205)325-7905

E-Mail: jmowry@american-usa.com

System Information

System Volume: 10000 gal Bulk Operating Temp: 470F / 243C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: KUTTNER

Sample Information

Lab No: 02537680 Analyst: Jake Finn Sample Date: 01/07/23 Received Date: 02/06/23 Completed: 02/10/23

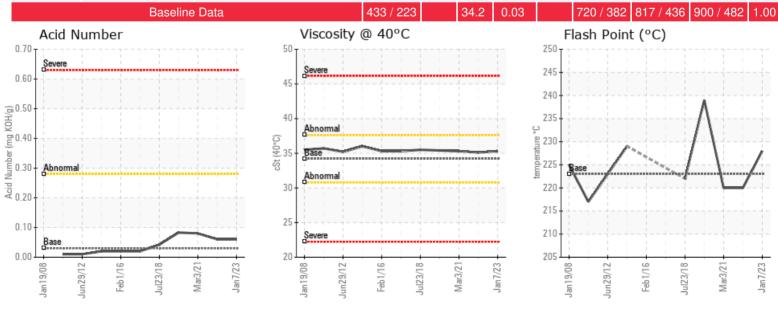
Jake Finn

jake.finn@HFSinclair.com

Recommendation: Testing indicates the system fluid is in great condition. No significant signs of wear, contamination or fluid degradation at this time. There has been an increase in pentane insolubles, but still well within an acceptable range. Fluid is suitable for continued use, please resubmit for testing in 12 months for regular monitoring.

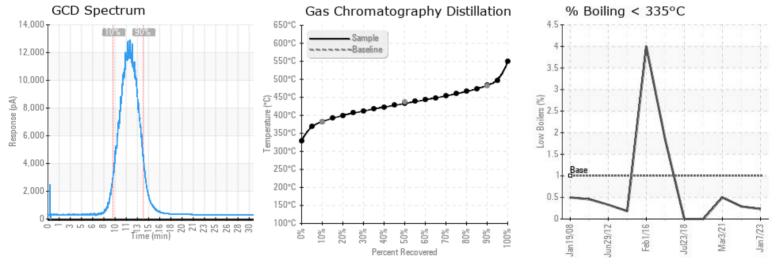
Comments: N/A







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



Historical Comments	
08/07/22	Sample indicates no signs of wear, contamination or fluid degradation. This fluid is suitable for continued use, please resample and submit for testing in 12 months.N/A
03/03/21	Results indicate fluid is in excellent condition and is suitable for continued use. Please resubmit for testing in one year.N/A
01/16/20	Oil is suitable for continued use. Please resubmit for testing in 12 months. Very Lite sand/dirt noted by lab.
07/23/18	Fluid is suitable for continued use. Please re-submit next scheduled sample in July 2019Some light/moderate debris noticed in the fluid by the lab. If the system has any filters, changing them is recommended; if the fluid in the system can be filtered safely during any system shutdowns with a kidney-loop filtration system that would be beneficial.

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