

[DAIBER A-54-C/94-B-16] STABILIZER REBOILER

Customer: PTRHTF20194

KANATA ENERGY GROUP DAIBER GAS PLANT A-54-C/94-B-16 FORT ST. JOHN, BC V1J 0H8 Canada

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System Information

System Volume: 5580 ltr

Bulk Operating Temp: 293F / 145C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: ALCO GAS & OIL

Sample Information

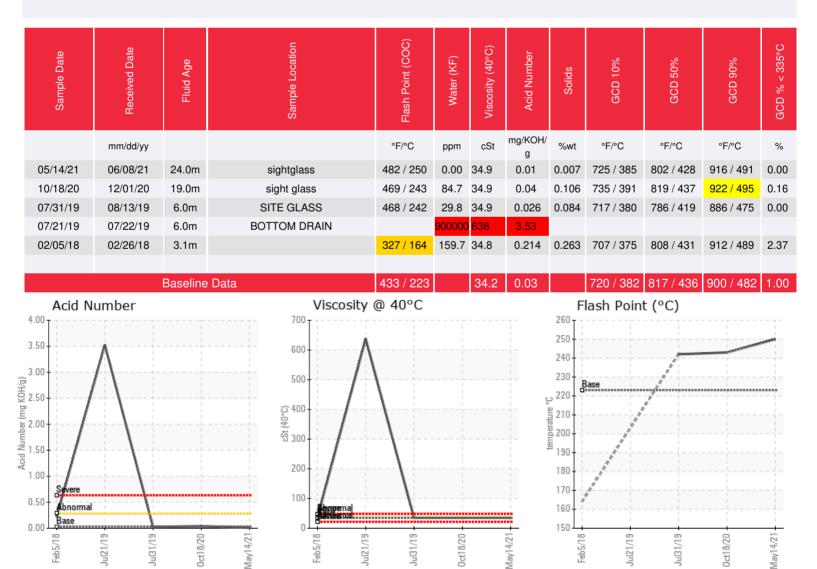
Lab No: 02425926 Analyst: Clinton Buhler Sample Date: 05/14/21 Received Date: 06/08/21 Completed: 06/11/21

Clinton Buhler

Clinton.Buhler@hollyfrontier.com

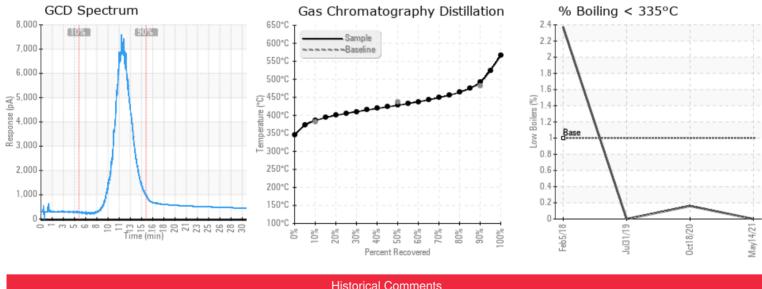
Recommendation: Sample results indicate that the fluid is suitable for continued service. Please note that the system site glass sample location may not be representative of system condition; please sample from a hot, turbulent zone such as pump discharge in 12 months

Comments:





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



Historical Comments	
10/18/20	Sample results indicate that the fluid is suitable for continued service. Please re-sample in 12 months
07/31/19	Sample results indicate that the heat transfer fluid is suitable for continued service. It was prudent that the fluid was re-sampled after the July 21, 2019 results as these new results show the fluid to be very healthy and free of contaminants. Please re-sample in 12 months
07/21/19	*** Diagnostician's Note: This sample is mostly water. Suggest the client drain off the water from the reservoir, then take a more representative sample. "**An immediate re-sample is required[Excess water in system. Please note that the fluid's acidity and viscosity is excessive and may not be representative. Please re-sample immediate! Please draw sample from most representative area of the heater vessel as possible. First drain all free water from system. Follow this by a purge of at least 20 liters of fluid until the fluid coming out is hot per normal operating temperatures. Collect sample and submit to the lab for analysis and Petro-Canada Technical Services will review and provide recommendations. Water contamination levels are severely high. Water contamination levels are severely high. Acid Number (AN) is severely high. Visc @ 40°C is severely high.
02/05/18	sample results indicate that the fluid is suitable for continued service. However, the reduced flash point, and slightly increased GCD % < 335°C can be indications of thermal degradation (cracking of the fluid molecules creating light ends). To help bring the flash point closer to new spec, perform a venting regime of the expansion tank. During venting, turn off the blanket gas to allow the light end vapors to escape. Re-sample in 6 months. Please ensure sample point is from a fluid zone most representative of system condition and that a thorough purge precedes the sample. COC Flash Point is abnormally low.

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