

## [KEYERA PARTNERSHIP / 3-12-46-14W5] PLANT 2

## Customer: PTRHTF30084

Keyera Partnership Brazeau River Ga...

Box 7318

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## System Information

System Volume: 14000 ltr

Bulk Operating Temp: 455F / 235C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: PETROTHERM ENG.

## Sample Information

Lab No: 02378568

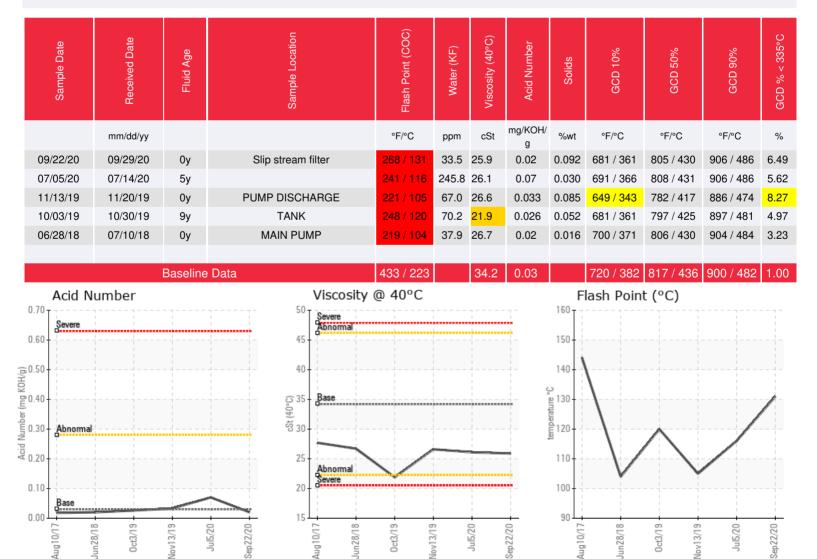
Analyst: Kevin McDermott Sample Date: 09/22/20 Received Date: 09/29/20

Completed: 09/30/20 Kevin McDermott

kevin.mcdermott@petrocanadalsp.com

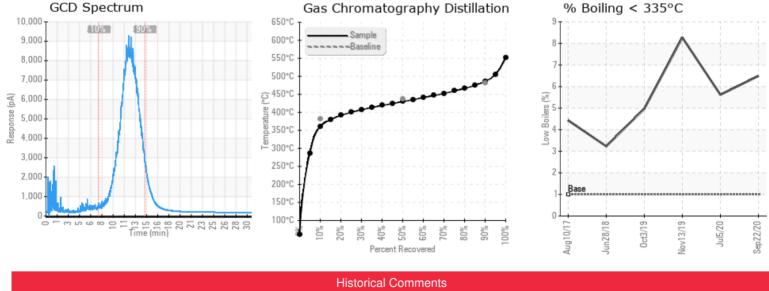
Recommendation: Fluid remains in good condition overall with very little change from the previous sample in July 2020. Viscosity is slightly low and the flash point is really low. Given the history of this system these lower values are likely from a previous exchanger leak. Flash point can be increased by venting the surge tank head space or partial fluid changeout. Continue to submit annual samples to proactively monitor fluid condition.

Comments: COC Flash Point is severely low.





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



Historical Comments	
07/05/20	Fluid remains in good condition overall. The viscosity is slightly low and the flash point is really low. Given the history of this system, these lower values are likely from a previous exchanger leak. Continue to submit annual samples to proactively monitor fluid condition. COC Flash Point is severely low.
11/13/19	The very low flash point combined with low viscosity are symptoms of thermal cracking, but given the history of this system likely from a prior exchanger leak. Fortunately these low valves are not significantly worsening since previous sample. Suggest submitting annual samples or sooner if fluid becomes stressed or if exchanger leak is suspected.
10/03/19	The reduced viscosity and severely reduced flash point suggest an exchanger leak since the previous sample June 2018. Suggest taking another sample to see if FP / visc are continuing to drop. COC Flash Point is severely low. Visc @ 40°C is abnormally low.
06/28/18	Flash point is very low, viscosity slightly lower, both caused by dilution from blanket gas, or early signs of thermal cracking. Suggest venting off light ends from fluid. COC Flash Point is severely low.

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