

[BONAVISTA PETROLEUM MARLBORO / 05-29-55-19W5] BONAVISTA

Customer: PTRHTF20158

BONAVISTA ENERGY

PEERS, AB T0E 1W0 CA Attn: David Chaput

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System Information

System Volume: 3500 gal

Bulk Operating Temp: 329F / 165C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: POWERFLAME

Sample Information

Lab No: 02597685 Analyst: Clinton Buhler Sample Date: 11/10/23 Received Date: 11/20/23 Completed: 12/12/23

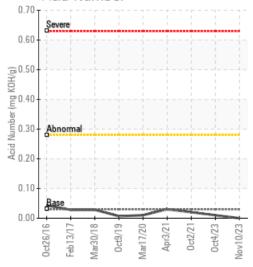
Clinton Buhler

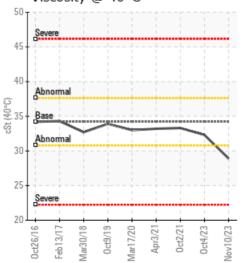
Clinton.Buhler@HFSinclair.com

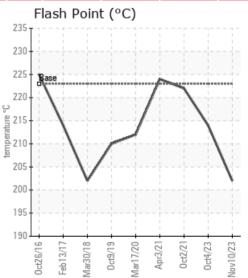
Recommendation: Sample results indicate the fluid is in suitable condition for continued service. It appears that this sample was taken merely a month after the previous sample. Fluid viscosity and flash point are slightly reduced and low boiler vapor content has increased to 5.85%. This may be associated with possible contamination with process hydrocarbon. Please perform regular venting of expansion tank to help restore fluid properties. Re-sample in 6-8 months.

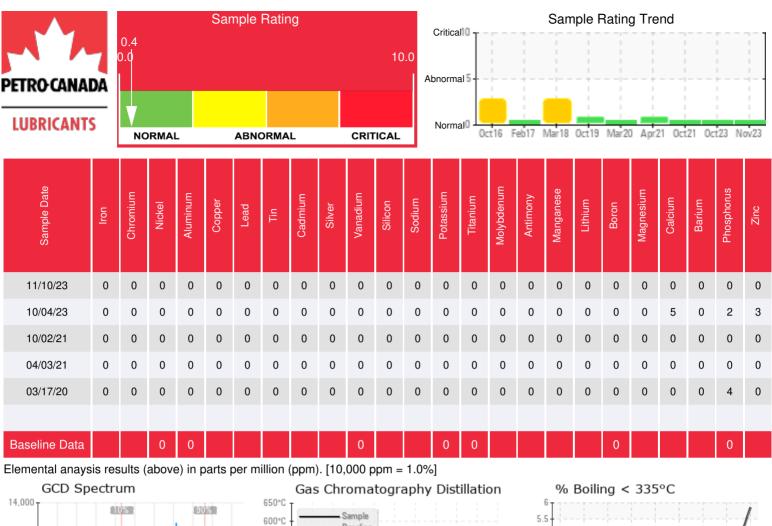
Comments: Visc @ 40°C is abnormally low.

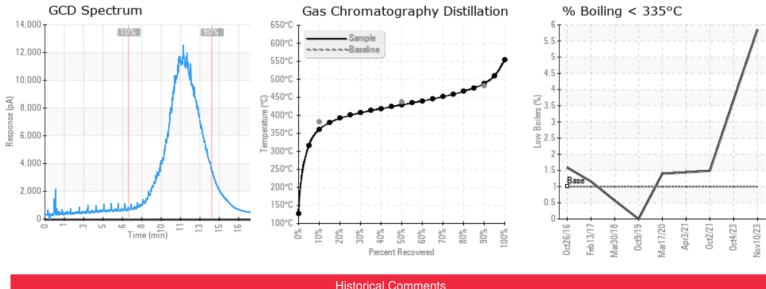












Historical Comments	
10/04/23	Sample results indicate the fluid is in suitable condition for continued service. Low boiler vapor content is at 3.68%. This is not excessive, but venting of the expansion tank can help bring this value back down. Please re-sample in 12 months
10/02/21	Sample results indicate the fluid is in suitable condition for continued service. Please re-sample after 12 months.
04/03/21	Sample results indicate that the fluid is in suitable condition for continued service. 90% distillation is slightly elevated as is solids content which can be associated to small amounts of fluid oxidation. Please ensure that blanket gas is being used in the expansion tank head space (2-3 psi ideal). Please re-sample in 12 months (GCD) 90% Distillation Point is marginally high.
03/17/20	The fluid is in good condition and suitable for further use. Please re-sample in 6 months.

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