



[A-72-F/94-H-3] TOURMALINE CONDY REBOILER

Customer: PTRHTF60071

Tourmaline Oil A-72-F/94-H-3 6604 100 Ave

Fort St. John, BC V0C 1C0 CA

Attn: Tel: E-Mail:

System Information

System Volume: 6000 ltr

Bulk Operating Temp: 302F / 150C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: ARJEE

Sample Information

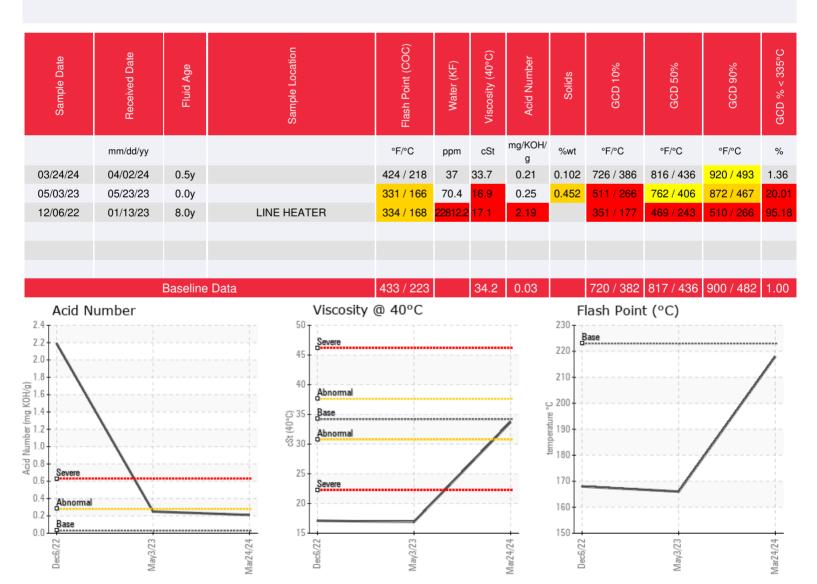
Lab No: 02626252 Analyst: Clinton Buhler Sample Date: 03/24/24 Received Date: 04/02/24 Completed: 04/10/24

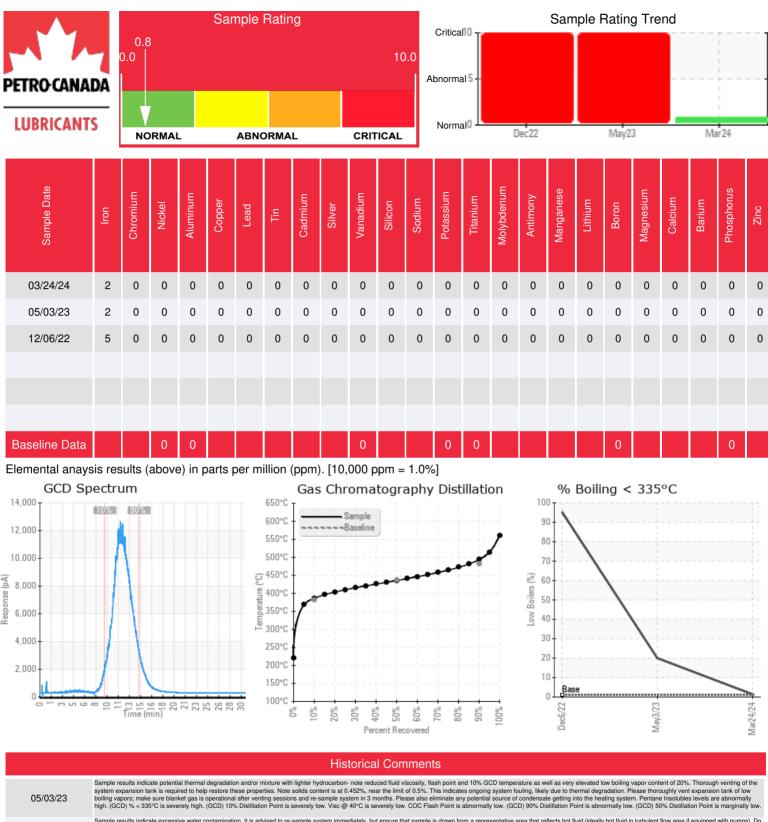
Clinton Buhler

Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months. Please carefully purge the sample point before taking the sample.

Comments:





Sample results indicate potential thermal degradation and/or mixture with lighter hydrocarbon-note reduced fluid viscosity, flash point and 10% GCD temperature as well as very elevated low boiling vapor content of 20%. Throrough venting of the system expansion tank is required to help restore these properties. Note solids content is at 0.452%, near the limit of 0.5%. This indicates ongoing system fouling, likely due to thermal degradation. Please thoroughly vent expansion tank of low boiling vapors; make sure blanket gas is operational after venting sessions and re-sample system in 3 months. Please also eliminate any potential source of condensate getting into the heating system. Pentane insolubles levels are abnormally high. (GCD) % c 335°C is severely high. (GCD) 10% Distillation Point is severely low. CoC Flash Point is abnormally low. (GCD) 50% Distillation Point is another label. As a special point of the point is abnormally low. (GCD) 50% Distillation Point is another label. As a special point of the point is abnormally low. (GCD) 50% Distillation Point is severely light. (GCD) 50% Distillation Point is severel

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