

[06-12-044-13W5] H-1611

Customer: PTRHTF20227

PEYTO EXPLORATION

Box 7198

EDSON, AB T7E 1V4 Canada

Attn: Cory Pambrun Tel: (780)712-0217

E-Mail: cpambrun@peyto.com

System Information

System Volume: 0 ltr

Bulk Operating Temp: 383F / 195C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: HEAT TECH

Sample Information

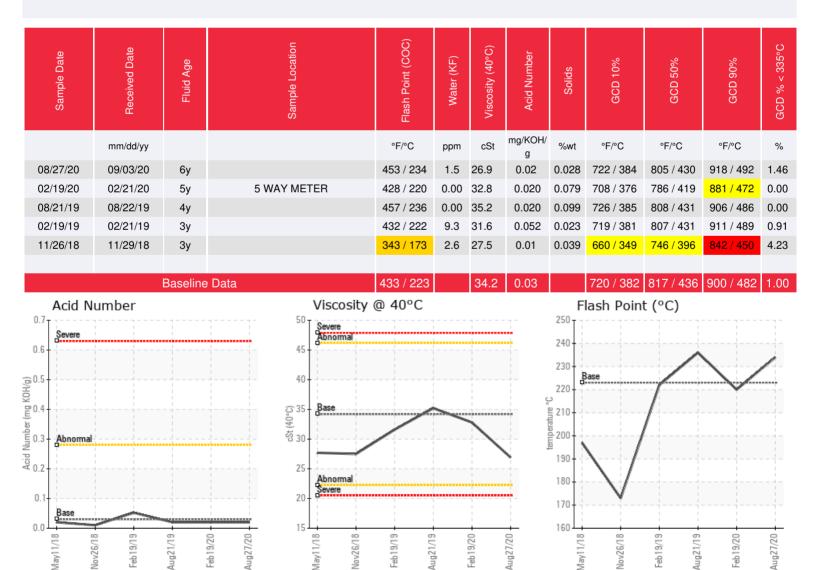
Lab No: 02374012 Analyst: Terry Veenstra Sample Date: 08/27/20 Received Date: 09/03/20 Completed: 09/08/20

Terry Veenstra

terry.veenstra@petrocanadalsp.com

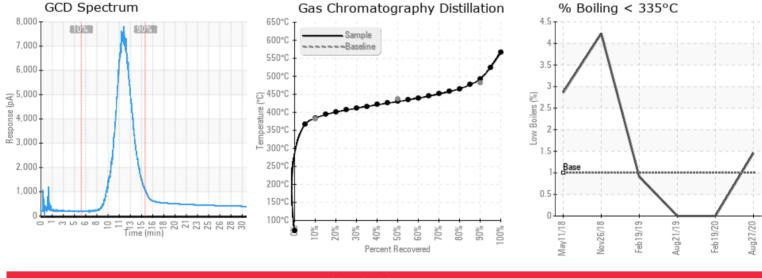
Recommendation: Sample results show that fluid is still good condition. GCD looks good, Pentane Insolubles are low and Flash Point is high. Resample in 6 months.

Comments:





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



Historical Comments GCD @ 90% is marginally low. Lighter ends should be vented off the system at regular intervals as good fluid maintenance practice. This should get rid of the low boilers in the system. Resample in 6 months. (GCD) 90% Distillation Point is marginally low. This sample indicates that the in service oil is good for continued use. Continue to vent periodically as part of a good maintenance program and resample in 6 months. This fluid has greatly improved since the pressure has been reduced and the system has been vented. Continue to vent periodically as part of a good maintenance program and resample in 6 months. The condition of the fluid shows signs similar to thermal degradation but as commented previously this is most likely the effect of too high pressure blanket gas. The Flash Point has decreased further and the distillation curve is low as a whole. Percentage low boiler vapors has increased to 4.23%. This will become problematic for the pumps at 7-8%. Since this is probably the result of blanket gas ingress it looks like natural gas is still in use. The use of N2 is recommended. Please reample in 6 months. When sending in the sample please list system volume. Fluid is suitable for further use. (GCD) 90% Distillation Point is marginally low.

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