

[12-31-53-19W5] H-802

Customer: PTRHTF20229

PEYTO EXPLORATION

Box 7198

EDSON, AB T7E 1V4 CA

Attn: Steve Warren Tel: (780)712-5616

E-Mail: swarren@peyto.com

System Information

System Volume: 7000 ltr

Bulk Operating Temp: 392F / 200C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: PROPAK

Sample Information

Lab No: 02376883 Analyst: Terry Veenstra Sample Date: 09/16/20 Received Date: 09/21/20 Completed: 10/06/20

Terry Veenstra

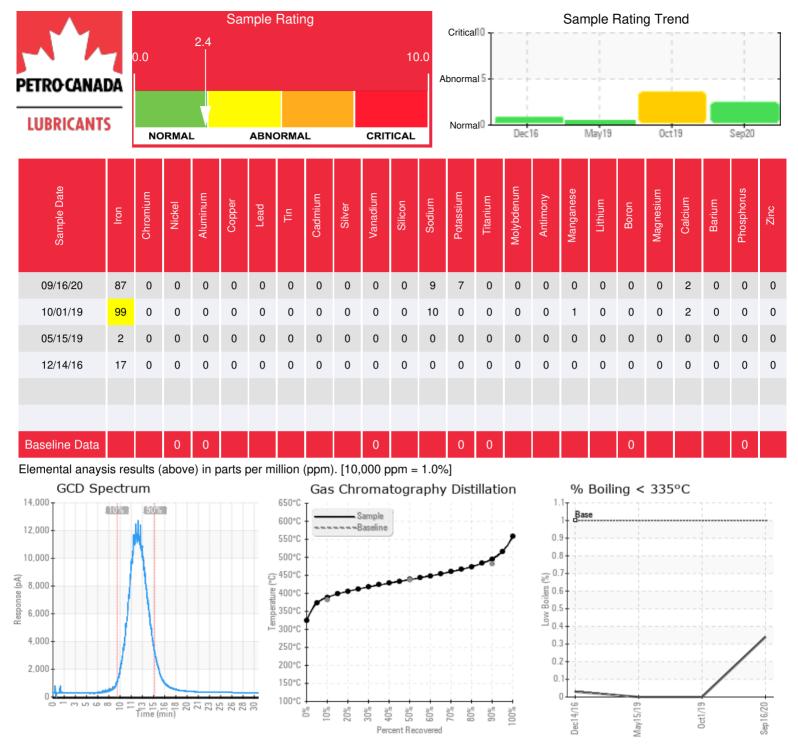
terry.veenstra@HFSinclair.com

Recommendation: Pentane insolubles are high however seem to be trending down. GCD @ 90% is sligtly high indicating some heavier ends in the oil. Ensure gas blanket is in place and functioning. Resample in 6 months.

Comments: Pentane Insolubles levels are severely high. (GCD) 90% Distillation Point is marginally high.



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Historical Comments According to the information on the analysis request form the fluid in the system has been in service for 6 months but is a used fluid. The condition of the fluid has degraded compared to the May 2019 analysis results. Viscosity and AN have increased. The fluid is starting to become acidic (AN = 0.57) which explains why the Fe content has increased to 99 ppm. (corrosion) Pentane Insoluble (solids) content is high at 1.25%. (0.5% is reportable limit). The fluid is suitable for further use but filtration of the fluid is storagly advised. In addition to filtration sweetening of the fill is recommended to stop the corrosion. Changing out 25% of the total volume should reduce the AN to a more acceptable level. Please re-sample later the sweetening has taken place or 3 months from now. Iron ppm levels are noted. Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is marginally high. The fluid is in a good condition and suitable for further use. Please re-sample in 6 months. The fluid is in good condition and suitable for further use. The 90% GCD temperature has increased as a result of fluid oxidation or mixing with a heavier fluid. The level of oxidation is normal for a fluid that has 3 years of service life. Ensure blanket gas is in place to prevent contact between the hot fluid and outside air. Please re-sample in 12 months. (GCD) 90% Distillation Point is abnormally high.

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