

[LSD 11-21-66-3W6] PHASE #3 HEAT MEDIUM

Customer: PTRHTF20236

Pembina - Petterson Creek

Grande Prairie, AB CA Attn: Ryan Solheim

Tel:

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System Information

System Volume: 55000 ltr

Bulk Operating Temp: 392F / 200C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: HEATEC

Sample Information

Lab No: 02605135 Analyst: Clinton Buhler Sample Date: 12/08/23 Received Date: 12/22/23 Completed: 01/05/24

Clinton Buhler

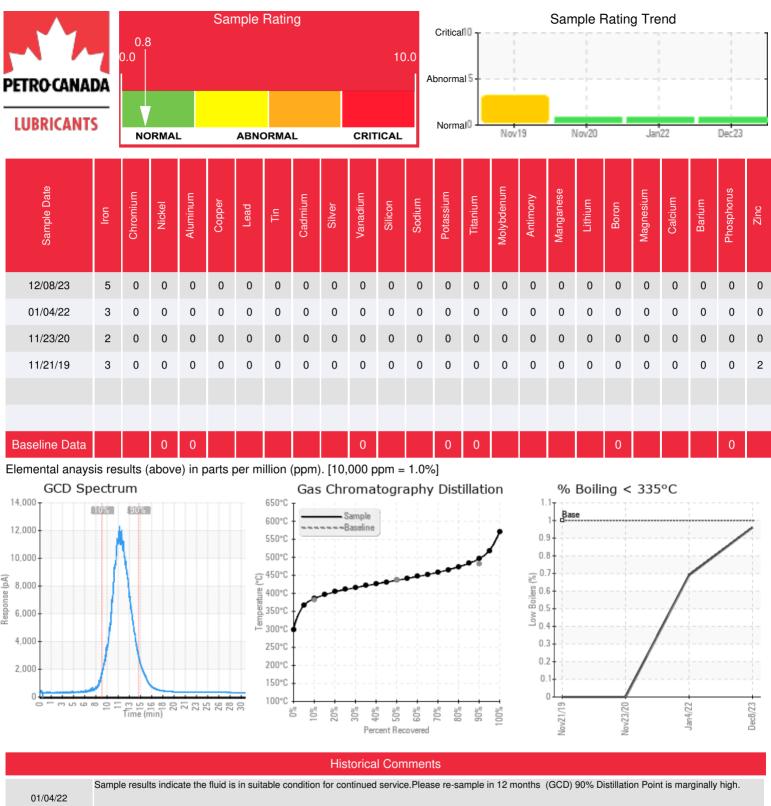
Clinton.Buhler@HFSinclair.com

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

Comments: (GCD) 90% Distillation Point is marginally high.



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Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months (GCD) 90% Distillation Point is marginally high. Sample results indicate that the thermal fluid is suitable for continued service. Slightly elevated 90% GCD temperature and slightly increased viscosity may be an initial indication of oxidation. Please ensure that blanket gas is operational and applied to the expansion tank headspace. Please re-sample in 12 months (GCD) 90% Distillation Point is marginally high. Sample results indicate that there is excess water in the system. This may be related to initial construction and commissioning or may also be related to where the sample could have been drawn from (stagnant low lying area where water can collect) and/or perhaps the sample valve and piping was not purged out thoroughly before taking the sample. Water vapor should be safely and thoroughly vented from the system expansion tank. Check for water at low spots in the system. Once this is completed, please re-sample in ~3-6 months, being cognizant to thoroughly purge the sample valve and piping before obtaining the sample. Water contamination levels are abnormally high

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