HEAT TRANSFER FLUID

Customer: PTRHTF10167

Polartec Tennessee Manufacturing LL...

310 Industrial Dr. S. W Cleveland, TN 37311 USA

Attn: Tommy Tilley Tel: (423)728-2206

E-Mail: tilleyt@polartec.com

System Information

System Volume: 2865 gal

Bulk Operating Temp: 525F / 274C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: HEATEC

Sample Information

Lab No: 02400935 Analyst: Jake Finn Sample Date: 01/25/21 Received Date: 02/01/21 Completed: 02/09/21

Jake Finn

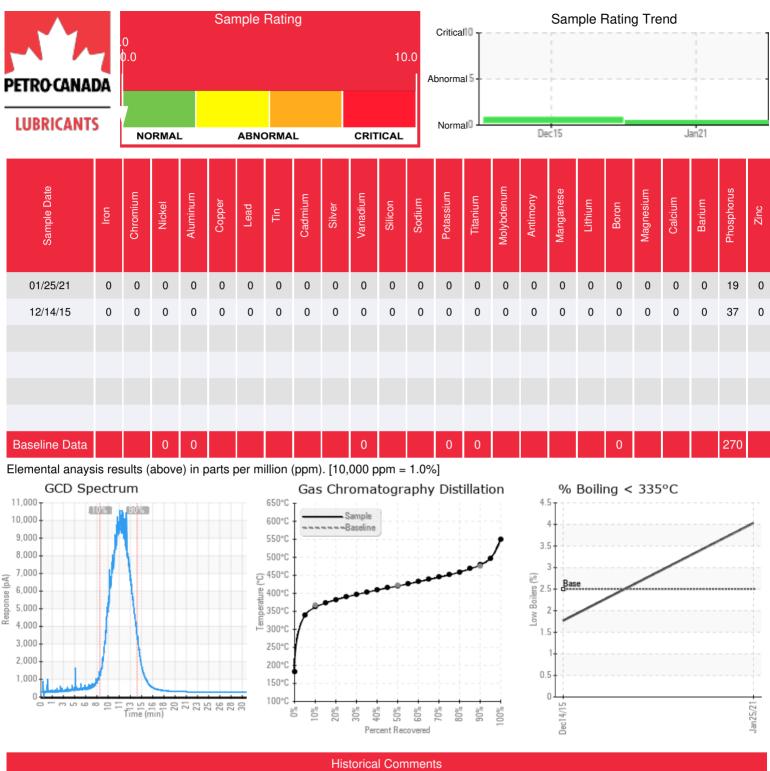
jake.finn@hollyfrontier.com

Recommendation: Fluid appears to be in great condition with no signs of degradation or contamination. Please resubmit for annual testing in one year.

Comments: N/A



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Judging by the green flags, the oil condition is not so bad. Flash point is still strong enough for 525F operation, oxidation is minimal because of the nitrogen blanket. Overall the oil looks ok. However, if the oil life is truly 18 years as indicated, we would use the next shut down as an opportunity to replenish som eof the additive reserve in the fluid by sweetening the system, i.e. replace a certain percentage (10% or 20%) of used oil with fresh Calflo. COC Flash Point is marginally low.

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12/14/15