

[ACTON] LINE 5 1909

Customer: PTRHTF30129	System Information	Sample Information
KP Products	System Volume: 25 Itr	Lab No: 02292073
323 Main Street North	Bulk Operating Temp: 500F / 260C	Analyst: Lynn Billings
Acton, ON L7J 2L9 Canada	Heating Source:	Sample Date: 06/14/19
Attn: Dan Smith	Blanket:	Received Date: 06/19/19
Tel: (226)820-4002	Fluid: PETRO CANADA CALFLO AF	Completed: 06/24/19
E-Mail: dan.smith@kpproducts.com	Make: EXTRUSION PROCESS	

Recommendation: In general, the fluid's distillation curve looks good and the pentane insoluble are okay at 0.281 (condemning limit is > 0.5). The used oil limit for acid number is > 0.5 and the result is currently at 0.346. Flash point and viscosity are fine. The main issue is contamination. There is high silicon level, which is probably from dirt or maybe when maintenance had been completed the system was not purged. The excess silicon is probably generating the wear (Iron 26 ppm). Also, there is some zinc in the system, which could be responsible for the sludge. Zinc is not a metal that is good for a heat transfer system because it can lead to sludge.Suggest to remove the fluid from the system and flush the system (twice). Add the required minimum amount of flush to recirculate the system. Then add new Calflo AF. We would also suggest you use a smaller micron filter than the 100 micron you are currently using so you can keep the system clean.

Comments: Iron ppm levels are severe. Silicon ppm levels are severely high. Acid Number (AN) is severely high.







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