

LINE 2 FILLED COATING CHROMALOX

Customer: PTRHTF10069

CERTAINTEED - SAINT GOBAIN 3303 EAST 4TH AVENUE SHAKOPEE, MN 55379 USA

Attn: Patrick Wallace

Tel:

E-Mail: patrick.wallace@saint-

gobain.com

System Information

System Volume: 1890 gal

Bulk Operating Temp: 474F / 246C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: CHROMALOX

Sample Information

Lab No: 02244123

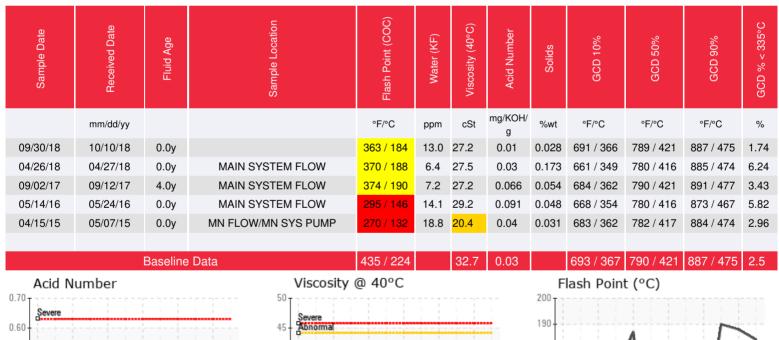
Analyst: Gaston Arseneault Sample Date: 09/30/18 Received Date: 10/10/18 Completed: 10/23/18

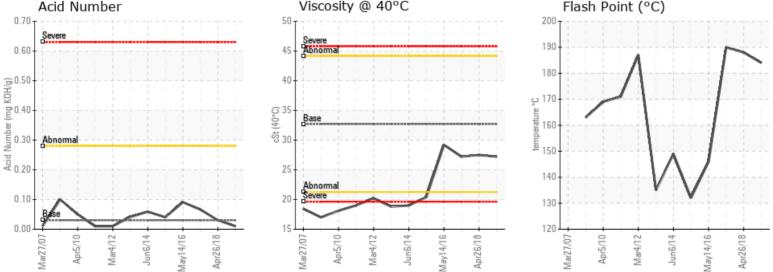
Gaston Arseneault

gaston.arseneault@hollyfrontier.com

Recommendation: The flash point is a bit low because of the reduced viscosity but it remains stable from year to year. Resample at next scheduled interval. No trace of contamination by asphalt or the elements or fluid degradation.

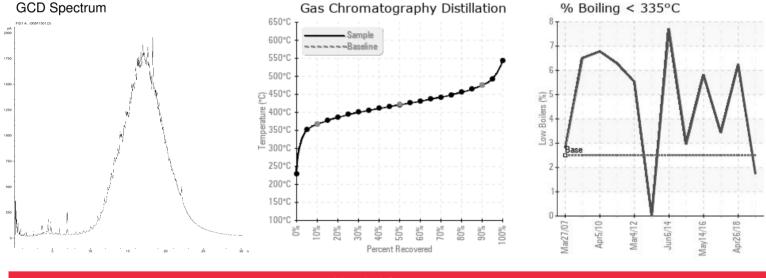
Comments: COC Flash Point is marginally low.







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



Historical Comments		
04/26/18	The results look identical to the previous sample which was a good improvement over the previous years when the flash point and the viscosity had dropped significantly. keep up our strong maintenance program. COC Flash Point is marginally low.	
09/02/17	The oil condition has improved over previous samples. The viscosity remains a little bit low. No immediate action is required at this time but you can vent the low boilers out and replace the lost volume with fresh oil as preventative measure. Re-sample at next normal interval. COC Flash Point is marginally low.	
05/14/16	COC Flash Point is severely low. GCD % at <335C has increased to 5.8% and the presence of light ends can be seen in the GCD. IBP has also decreased to 164C. Recommend venting the system.	
04/15/15	Flash point is severely low and system should be vented or fluid changed. Viscosity at 40C is substantially lower than new Calflo AF - investigate source. NOTE: Sample is more than 1 year old and was never completed. Closing out in LIMS system. COC Flash Point is severely low. Visc @ 40°C is abnormally low.	

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.