

SOUTH HEATER

Customer: PTRHTF10043

MALARKY ROOFING PRODUCTS 3131 N. COLUMBIA BLVD PORTLAND, OR 97217 USA

Attn: Jeff Tonn

Tel:

E-Mail: jtonn@malarkeyroofing.com

System Information

System Volume: 1200 gal

Bulk Operating Temp: 620F / 327C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO HTF

Make: AMERICAN HEATING

Sample Information

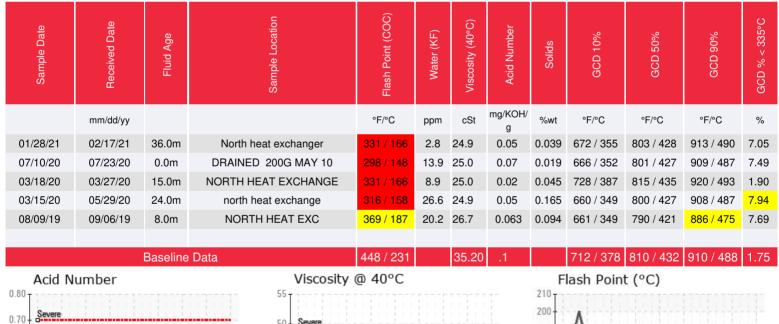
Lab No: 02404157 Analyst: Ron LeBlanc Sample Date: 01/28/21 Received Date: 02/17/21 Completed: 02/22/21

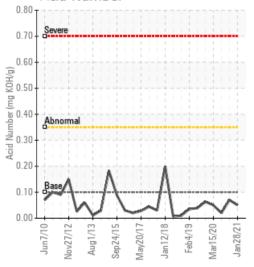
Ron LeBlanc

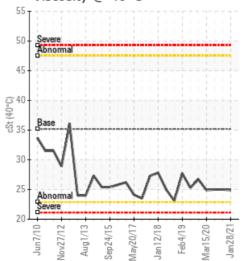
Ronald.LeBlancSr@hollyfrontier.com

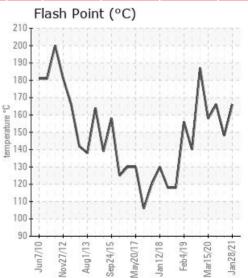
Recommendation: (GCD) 10% is low which can cause the flash point to lower significantly indicating low boilers. The low boilers can be removed via the expansion tank. Re-sample in 6 months.

Comments: COC Flash Point is severely low.



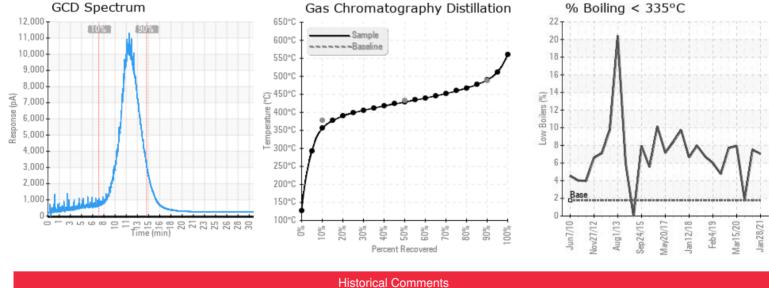








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments	
07/10/20	COC Flash point is low which indicates thermal degradation or possible contamination. Be sure the sample port was purged sufficiently before capturing sample oil. COC Flash Point is severely low.
03/18/20	The COC flash point is low again compared to the previous sample. All other typicals remain normal. Could the reported sample have been pulled without proper purging? Adding some new oil would bring up the flash point. Resample in 30 days and purge at least 2 gallons from sample point to evaluate the results. COC Flash Point is severely low.
03/15/20	COC Flash Point is very low. A low flash point can indicate thermal degradation. Add new oil to bring up Flash Point. (GCD) % < 335°C is marginally high. Make sure the oil was purged before collection into the sample container to get the best sample. COC Flash Point is severely low. (GCD) % < 335°C is marginally high.
08/09/19	COC Flash point came up from the previous sample. (GCD) 90% point is marginally low. Resample in 3 months. COC Flash Point is marginally low. (GCD) 90% Distillation Point is marginally 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.