

LN02 Filler Mixer Hot Oil System

Customer: PTRHTF10141

TAMKO BUILDING PRODUCTS

2300 35TH ST

TUSCALOOSA, AL 35401 USA

Attn: Greg Colburn Tel: (205)752-3555

E-Mail: gregory_colburn@tamko.com

System Information

System Volume: 650 gal

Bulk Operating Temp: 530F / 277C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: HEATEC Inc.

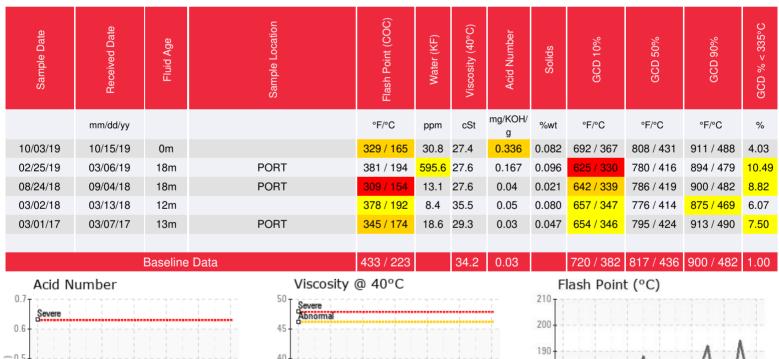
Sample Information

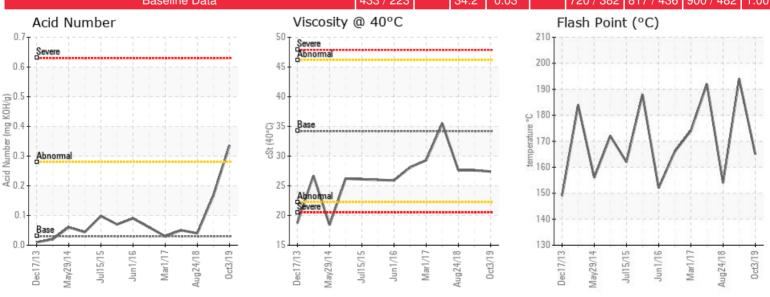
Lab No: 02314441 Analyst: Jake Finn Sample Date: 10/03/19 Received Date: 10/15/19

Completed: 11/08/19

Recommendation: Oil is suitable for continued use. Please resubmit sample in one year.

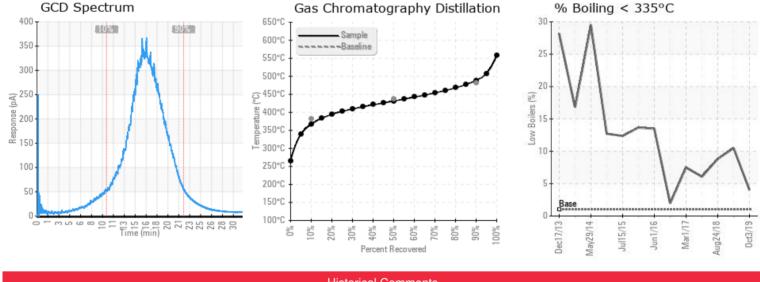
Comments: Acid Number (AN) is abnormally high. COC Flash Point is abnormally low.







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



Historical Comments Venting the system will mitigate the 10% distillation curve values and may improve the Flash point. Please maintain bulk fluid temperature at the 530°F design parameters to flash off any moisture Changing any system filters or kidney-loop filtering the fluid during any shutdown periods will remove any 'light debris' as seen by the lab. If any adjustments or modifications to the system are performed, please re-submit sample for verification. (GCD) 10% Distillation Point is severely low. (GCD) % < 335°C is marginally high. Water contamination levels are marginally high. ppm Water contamination levels 02/25/19 are marginally high. Venting the system is recommended to align the 10% distillation point and 'potentially' the flash point. In June 2006, similar results for this system were documented and maintenance mitigated, re-submitted sample 3-months later & the parameters were all in-line. Please maintain system and re-submit sample for confirmation that fluid values are aligned. Flash point has reached a value of 154oC (309oF). Please assure the fluid 08/24/18 in this system is below these values or consider changing fluid if the parameters cannot be mitigated. Also, some very lite debris was noticed by the lab technician and this can be mitigated by changing system filters or filtering with kidney loop system during a safe shutdown period to assure fluid cleanliness levels. COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high. Sample is suitable for continued use. Please resample in 12 months COC Flash Point is marginally low. (GCD) 10% Distillation Point is marginally low. (GCD) 90% Distillation Point is marginally low. Consider 'venting' the system to improve these values. Sample condition has improved from previous fluid sample submitted a year ago. Very light 03/02/18 debris found in fluid. This can be filtered out with a kidney loop filtration system if suitable during system downturn for maintenance. Change any system filters, if any. Recommendation to 'vent' system may assist the flash point and distillation points <335oC. Send sample into the lab after any mitigation/maintenance is performed to check for improved values. Safely filtering the oil during any shutdowns and/or changing any system filters may reduce the visible debrisWear metals are low/Contaminant levels are low/Water is nil/COC Flash 03/01/17 Point is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low/Viscosity is in check/Pentane insoluble are satisfactory/Very light debris in sample

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.