





LN01 Filled Sealdown Loop Hot Oil System

Customer: PTRHTF10141

TAMKO BUILDING PRODUCTS

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System Information

System Volume: 110 gal

Bulk Operating Temp: 350F / 177C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO HTF

Make: Heat Exchanger And T

Sample Information

Lab No: 02199996 Analyst: Manny Garcia Sample Date: 02/15/18 Received Date: 02/22/18 Completed: 02/27/18

To discuss this report contact Manny

Garcia at 954-384-7259

Recommendation: Fluid is suitable for continued use.

Comments: Improvements over the previous sample submitted 3.5 months earlier are noticeable. There was an increase in visible 'debris' although the color of the fluid is much clearer then before. If possible, filtering this fluid will assist in maintaining cleanliness or changing any system filters.





02/15/18

11/01/17

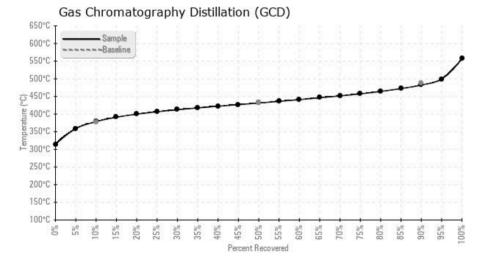
10/02/17

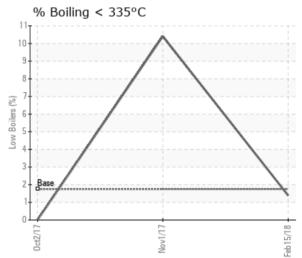
10/02/17



Baseline Data 0 0 0 0 0 0 280

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





Historical Comments

This sample has significantly changed negatively since the previous sample 1 month prior. This fluid may be a candidate for a drain, flush and fill with virgin Calflo HTF only because of the rate of change noticed between samples. Pentane Insolubles have increased from .02 to .2 which is a big leap in the 'solids' found in the oil. Oil oxidation may be occurring as witnessed in the severe increase in the distillation curve <3350C (GCD) 50% Distillation Point is severely low. (GCD) 90% Distillation Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.

The distillation points may be mitigated by 'venting' the heat transfer system. Oil is suitable for continued use. Please send any samples in immediately after any maintenance has been completed to rectify the distillation points. Wear Metals are satisfactory; Contamination levels are in check; Water is low at 9.9ppm; Acid number is low; Viscosity of the fluid is satisfactory at 35.5 Cst; COC Flash Point is good; (GCD) 10% Distillation Point is marginally high. (GCD) 90% Distillation Point is marginally low. Pentane insolubles are low; No visible debris detected.

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