

# **IWESTERN ASPHALT PRODUCTS LSD / BRANDON MANITOBA] BRANDON HOT OIL**

# Customer: PTRHTF20161

Western Asphalt Products 65 Limestone Rd E Brandon, MB R7A 7L5 Canada

Attn: Adam Mahaney Tel: (204)573-7347

E-Mail: mahaney@westernasphalt.ca

# **System Information**

System Volume: 3700 ltr

Bulk Operating Temp: 340F / 171C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: GENCOR

# Sample Information

Lab No: 02327207 Analyst: Kevin McDermott Sample Date: 12/09/19 Received Date: 12/16/19

Completed: 12/19/19

210

205

200

Jun 16/15

Recommendation: Fluid is in good condition and suitable for continued service. The Acid Number (AN) is a little higher than expected which could be from oxidation, however no other oxidation symptoms are present. Otherwise no concerns. Continue to submit annual samples or sooner if fluid is subjected to harsh conditions or contamination is suspected.

## Comments:

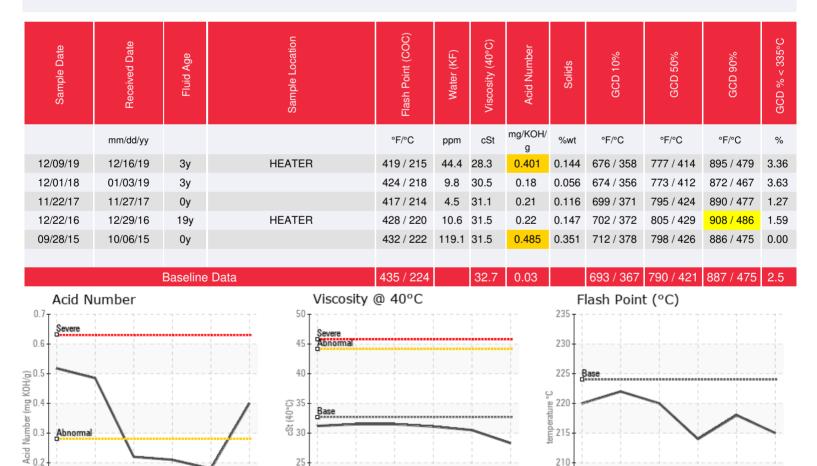
0.1

0.0

Jun 16/15

Dec22/16

Vov22/1



Jun 16/15

Dec22/16

Dec1/18

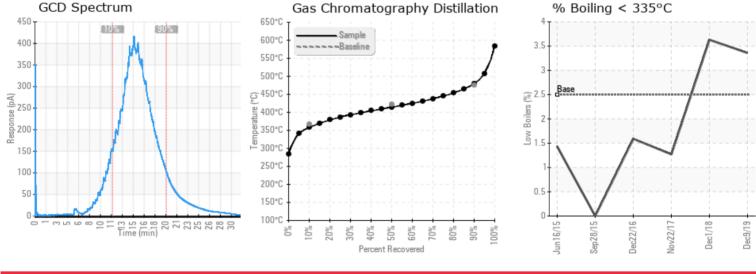
25

20

Dec1/18



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



Historical Comments	
12/01/18	The fluid has adequate viscosity, flash point and distillation points. The Acid Number and solid content are all low. The current fluid condition is quite consistent over the past 3.5 years. Please continue to run this fluid and take one sample in 12 months to monitor the conditions.
11/22/17	The current fluid is in good conditions and suitable for further operation. Please take one sample in one year and monitor the conditions. Please also provide the oil working hours with the next sample. Normal viscosity, acid number, and distillation points. The water and solid contents are all minimum.
12/22/16	The current fluid has adequate viscosity, flash point, acid number and distillation points. The fluid properties are very similar in the past 19months. Please take one sample in one year to monitor the conditions.
09/28/15	The current Calflo AF has the adequate viscosity, flash point and the distillation points. It is suitable for continual use. The higher TAN number indicate there are some oxidation because it is an open system. Please pay attention to the contamination control, reduce the bulk temperure as much as possible to slow the oxidation, record the oil top up rate (~L/month), and take one sample to monitor in 9 months. Acid Number (AN) is high.

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.