



[Westbrick Energy LSD 16-36-55-15W5] Westbrick Energy

Customer: PTRHTF20039	System Information	Sample Information
BRENNTAG CANADA INC 3124-54TH AVENUE SE CALGARY, AB T2C 0A8 CA Attn: Matthew Kryska Tel: E-Mail: mkryska@brenntag.ca	System Volume: 0 ltr Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02591566 Analyst: Clinton Buhler Sample Date: 10/05/23 Received Date: 10/24/23 Completed: 10/27/23 Clinton Buhler Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Water content is at 984 ppm which is high for a heat transfer system, indicating potential contamination or possibly from sampling fluid from a dead leg or low point that may have collected water (site-glass). If safe to do so, please vent expansion tank of any water vapor followed by ensuring blanket gas is operational in the expansion tank. Please re-sample in 6 months, but please try to sample from a hot, turbulent zone after a thorough flush of the sample valve and piping.

Comments: (GCD) 90% Distillation Point is marginally high.

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/05/23	10/24/23	21.0m	Sight glass	464 / 240	984.5	34.8	0.21	0.128	726 / 386	816 / 436	918 / 492	1.11
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



