

[BONAVISTA PETROLEUM MARLBORO / 05-29-55-19W5] BONAVISTA

Customer: PTRHTF20158
 BONAVISTA ENERGY
 16-11-54-15-W5
 PEERS, AB T0E 1W0 Canada
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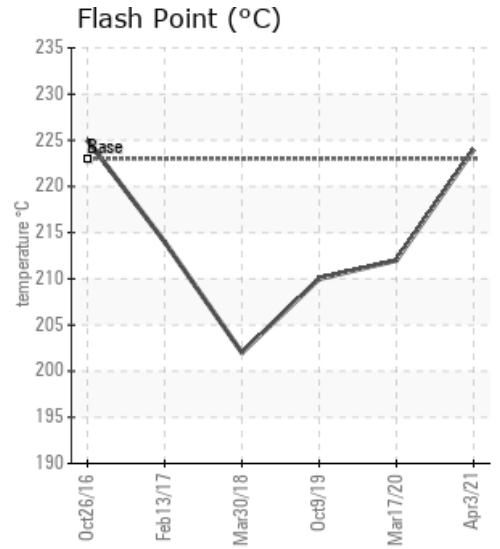
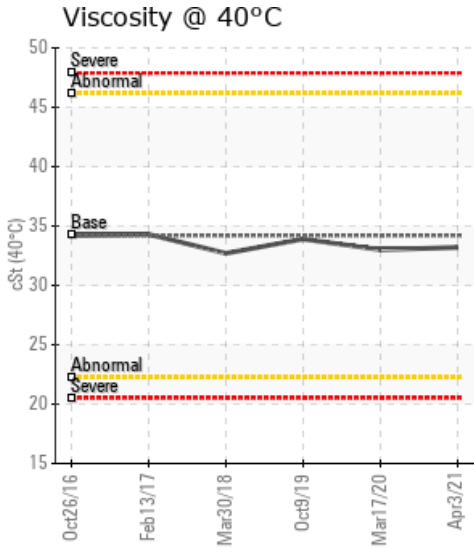
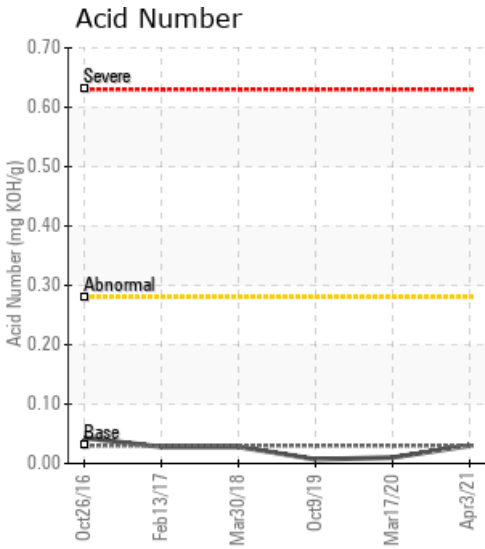
System Information
 System Volume: 3500 gal
 Bulk Operating Temp: 329F / 165C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: POWERFLAME

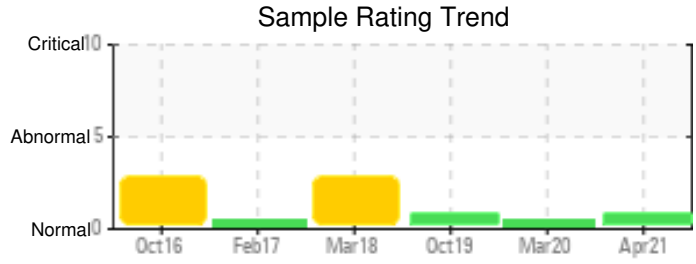
Sample Information
 Lab No: 02415367
 Analyst: Clinton Buhler
 Sample Date: 04/03/21
 Received Date: 04/15/21
 Completed: 04/20/21
 Clinton Buhler
 Clinton.Buhler@hollyfrontier.com

Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. 90% distillation is slightly elevated as is solids content which can be associated to small amounts of fluid oxidation. Please ensure that blanket gas is being used in the expansion tank head space (2-3 psi ideal). Please re-sample in 12 months

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

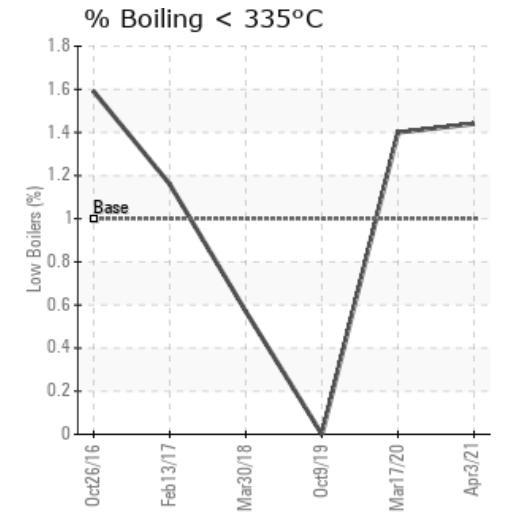
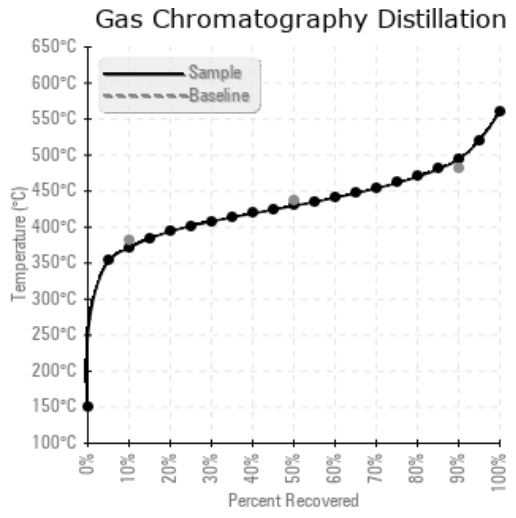
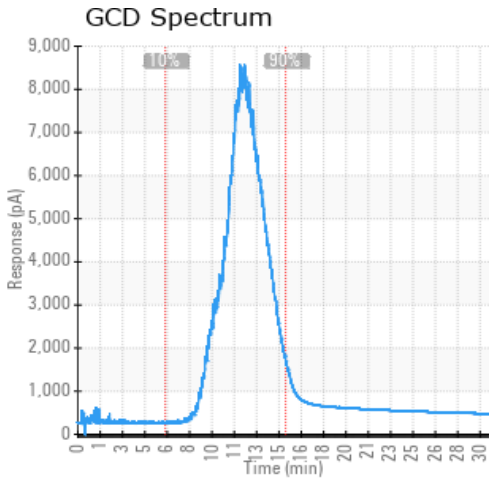
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/03/21	04/15/21	0.0y	top of filter	435 / 224	25.3	33.2	0.03	0.156	700 / 371	805 / 430	921 / 494	1.44
03/17/20	03/31/20	8.5y	FILTER	414 / 212	116.8	33.0	0.01	0.105	708 / 376	812 / 433	915 / 491	1.40
10/09/19	10/23/19	8.0y		410 / 210	75.4	33.9	0.007	0.124	721 / 383	820 / 438	923 / 495	0.00
03/30/18	04/13/18	7.0y		396 / 202	210.0	32.7	0.028	0.008	702 / 372	815 / 435	951 / 511	0.57
02/13/17	03/24/17	0.0y		417 / 214	14.6	34.3	0.028	0.049	708 / 376	817 / 436	926 / 497	1.16
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
04/03/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/17/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
10/09/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
03/30/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02/13/17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0				0					0	

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



Historical Comments	
03/17/20	The fluid is in good condition and suitable for further use. Please re-sample in 6 months.
10/09/19	The fluid is in good condition and suitable for further use. Please re-sample in 12 months. (GCD) 90% Distillation Point is marginally high.
03/30/18	The fluid is in a good condition and suitable for further use. There is some normal degradation ongoing which has resulted in a high 90% GCD temperature. Please resample in 12 months. (GCD) 90% Distillation Point is severely high.
02/13/17	Please completely fill in sample card information as this important data improves analysis. Sample results indicate that the fluid is in very good shape. No further action required at this time. Please re-sample in 12 months. (GCD) 90% Distillation Point is marginally high.

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