

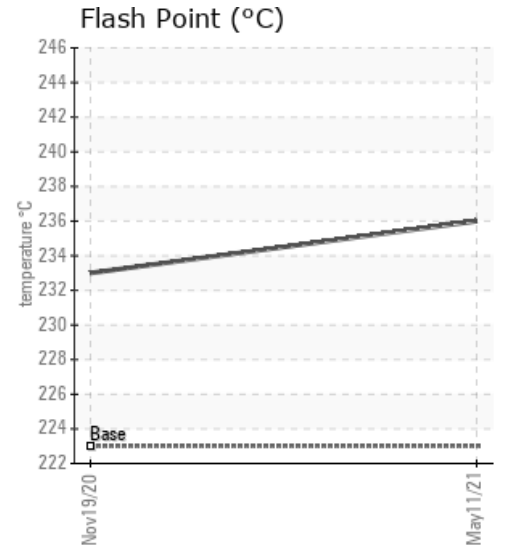
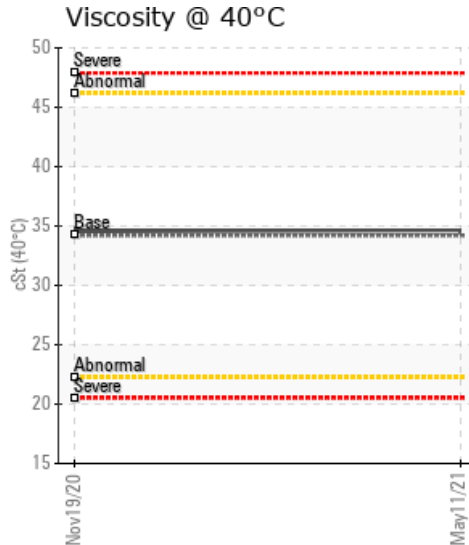
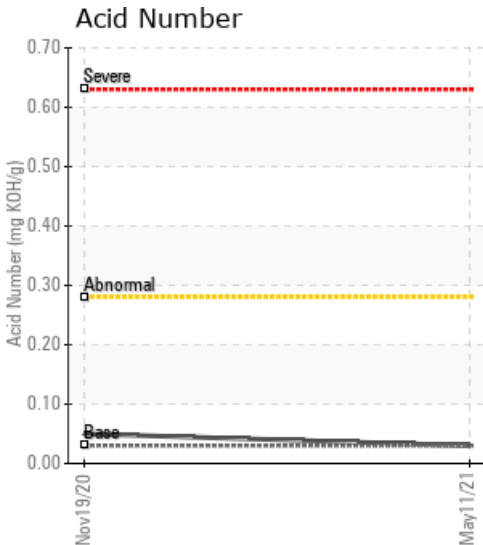
## [Storm Resources / B-48-G/94-H-4] H802

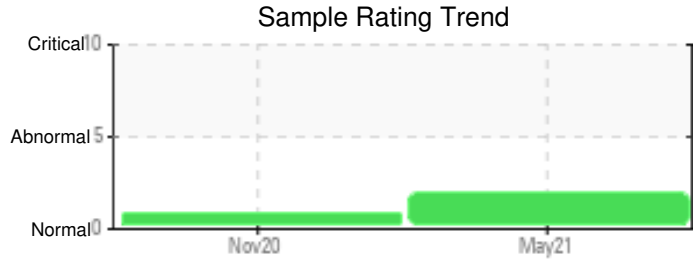
Customer: PTRHTF20175	System Information	Sample Information
QUADRA CHEMICALS 7802 98 STREET CLAIRMONT, AB T0H 0W0 Canada Attn: Quadra Samples Tel: E-Mail: quadra_samples@quadra.ca	System Volume: 43000 ltr Bulk Operating Temp: 401F / 205C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HEATECH	Lab No: 02423514 Analyst: Clinton Buhler Sample Date: 05/11/21 Received Date: 05/26/21 Completed: 05/28/21 Clinton Buhler Clinton.Buhler@hollyfrontier.com

Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. 90% GCD temperature is elevated but all other parameters indicate a healthy fluid and this is currently not a performance concern. Please re-sample in 12 months

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

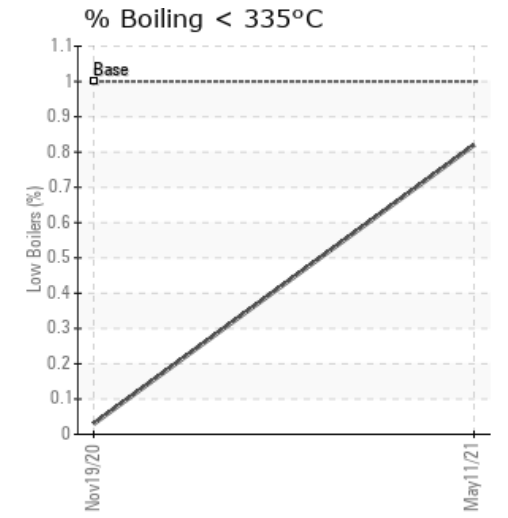
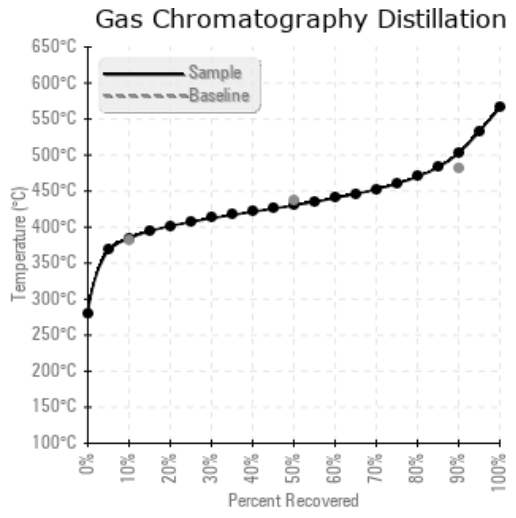
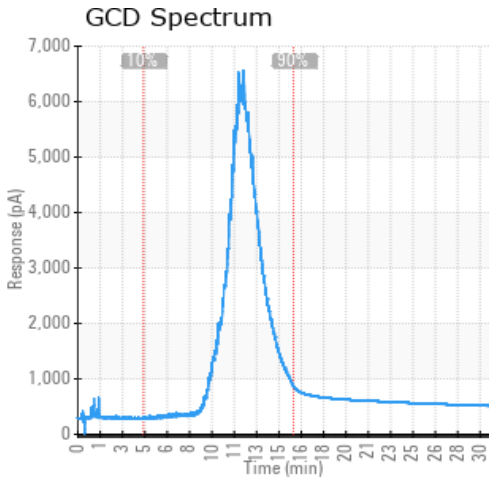
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/11/21	05/26/21	1.5m	Upstream of pump	457 / 236	17.3	34.5	0.03	0.069	724 / 384	806 / 430	936 / 502	0.82
11/19/20	02/23/21	9.5m	Inlet to pump	451 / 233	1.7	34.6	0.05	0.126	744 / 396	829 / 443	927 / 497	0.03
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
05/11/21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/20	1	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

11/19/20	Sample results indicate that the fluid is in suitable condition for continued service. Both 10% and 90% distillation temperatures are elevated compared to new fluid, yet all other parameters remain healthy. Please re-sample in 3-6 months to build data trend.

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