

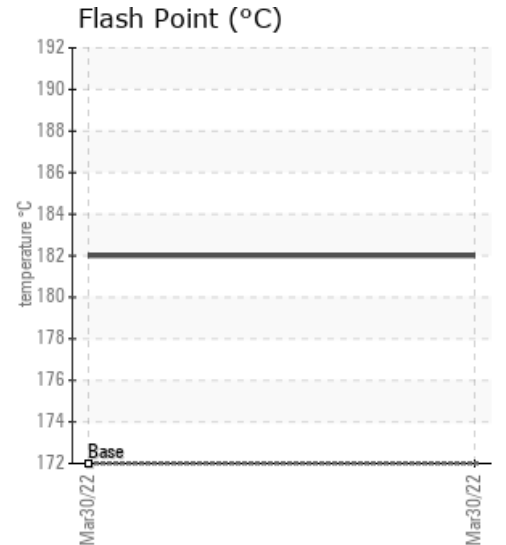
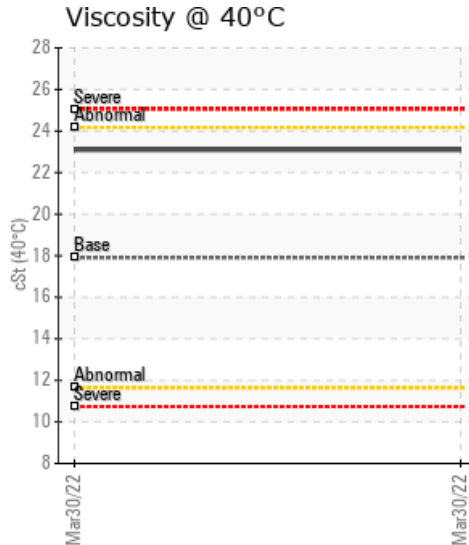
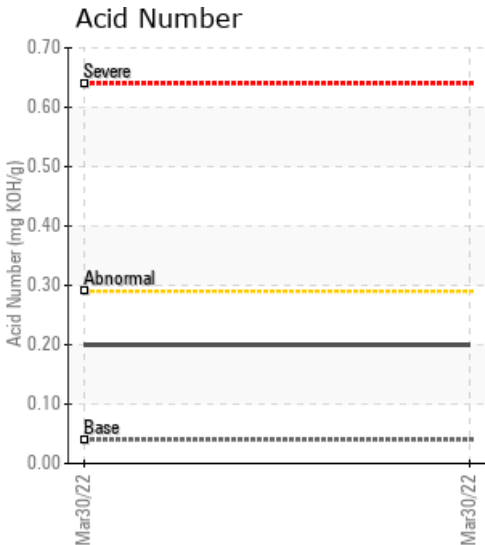
## TANK 2-4

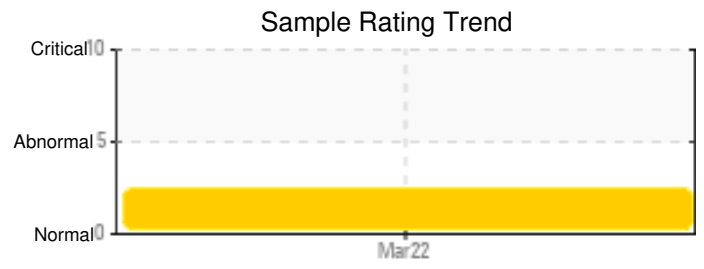
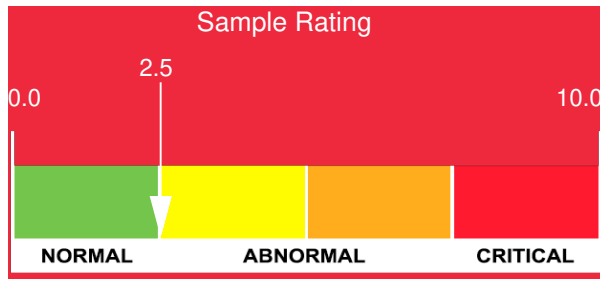
Customer: PTRHTF10254	System Information	Sample Information
SUGAR CREEK 1200 ENTERPRISE RD CAMBRIDGE CITY, IN 47327 USA Attn: Nate Ziegler Tel: (513)266-9267 E-Mail: nziegler@sugar-creek.com	System Volume: 4000 ltr Bulk Operating Temp: 550F / 288C Heating Source: Blanket: Fluid: PARATHERM NF Make: FULTON	Lab No: 02480745 Analyst: Yvette Trzcinski Sample Date: 03/30/22 Received Date: 03/31/22 Completed: 04/06/22 Yvette Trzcinski yvette.trzcinski@hollyfrontier.com

Recommendation: I believe this was the system that was topped up with 1000 gallons of Purity FG HTF. that would coincide with the slight increase in viscosity and the higher GCD distillation points. The fluid specifications are within specification and product is acceptable for continued service. Resample in 6- 12 months

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

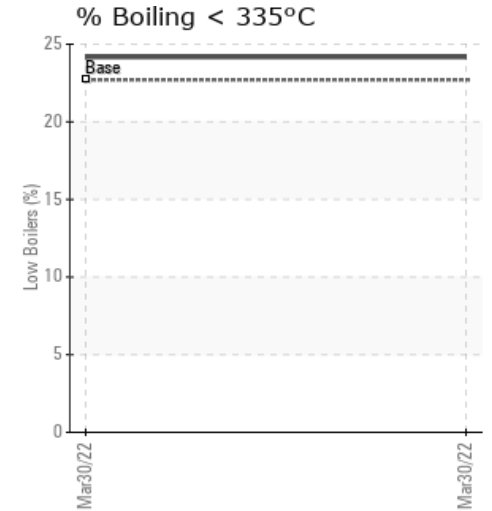
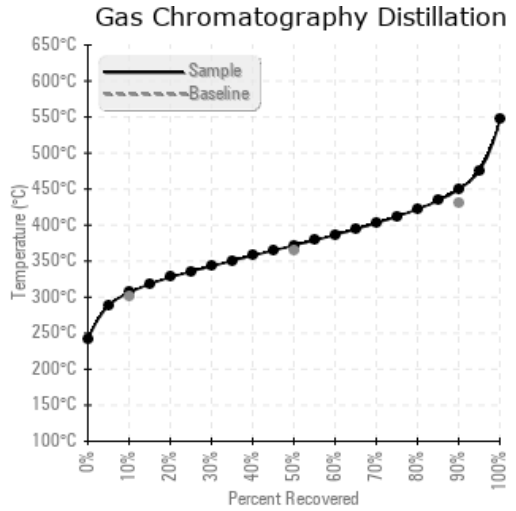
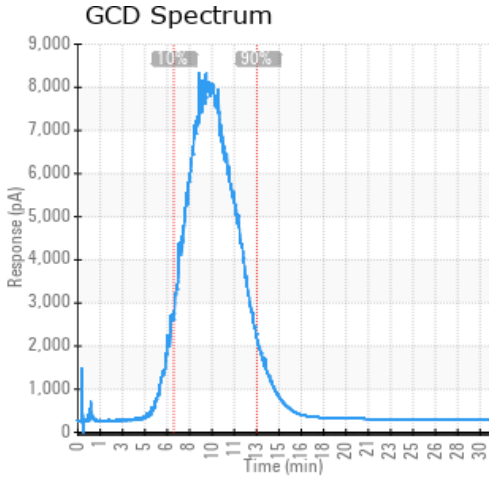
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/30/22	03/31/22	1.0y		360 / 182	0.00	23.1	0.20	0.057	583 / 306	701 / 372	841 / 449	24.17
Baseline Data				342 / 172		17.9	0.04		572 / 300	689 / 365	808 / 431	22.7





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
03/30/22	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
<b>Baseline Data</b>			0	0						0			0	0					0				0	

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



### Historical Comments


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