

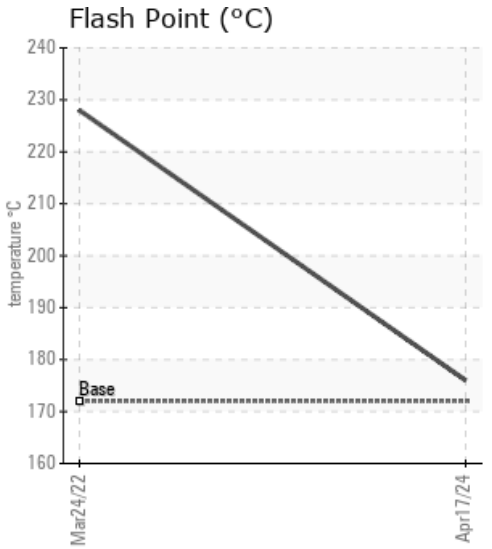
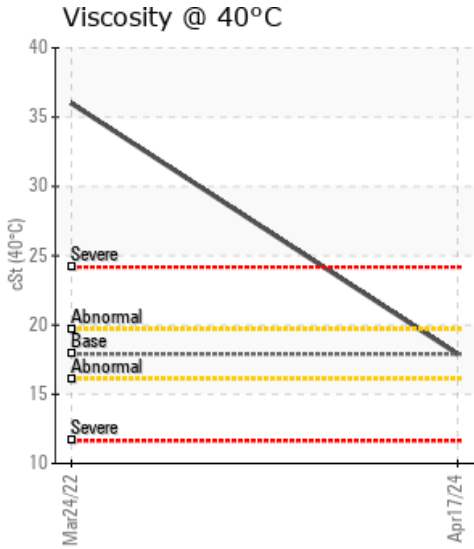
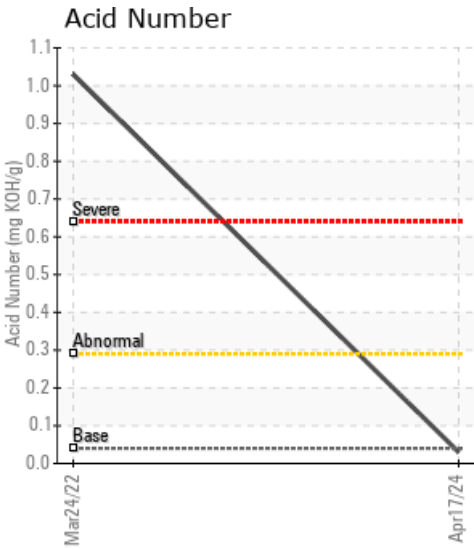
FULTON NEW SEQU 4

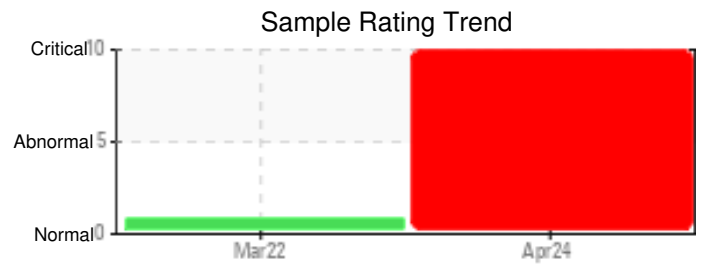
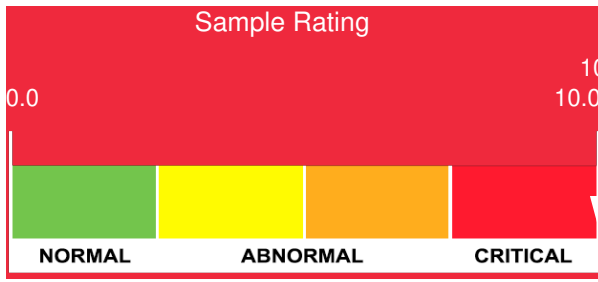
Customer: PTRHTF10254	System Information	Sample Information
SUGAR CREEK 1200 ENTERPRISE RD CAMBRIDGE CITY, IN 47327 US Attn: Nate Ziegler Tel: (513)266-9267 E-Mail: nziegler@sugar-creek.com	System Volume: 5600 ltr Bulk Operating Temp: 550F / 288C Heating Source: Blanket: Fluid: PARATHERM NF Make: FULTON	Lab No: 02632427 Analyst: Yvette Trzcinski Sample Date: 04/17/24 Received Date: 04/30/24 Completed: 05/17/24 Yvette Trzcinski yvette.trzcinski@HFSinclair.com

Recommendation: The fluid looks to be 100% paratherm NF and meets the specifications for that fluid. Recommend resampling in 6- 12 months

Comments: (GCD) % < 335°C is severely high. (GCD) 10% Distillation Point is severely low. (GCD) 50% Distillation Point is severely low. (GCD) 90% Distillation Point is severely low. COC Flash Point is severely low. Visc @ 40°C is severely low.

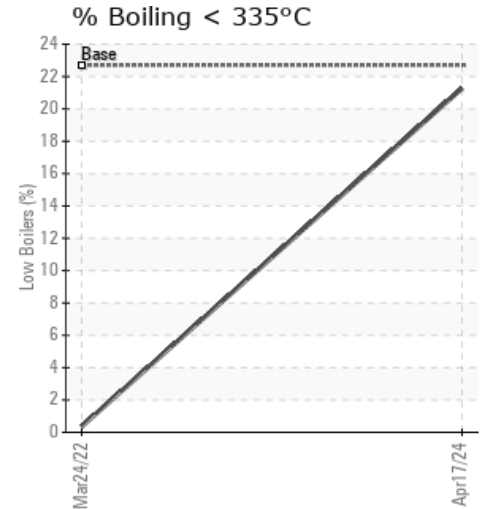
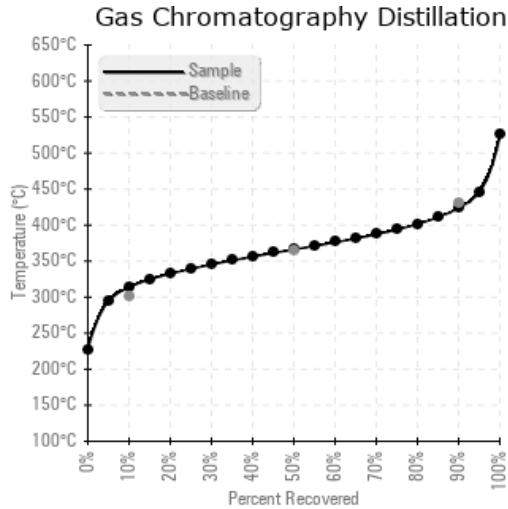
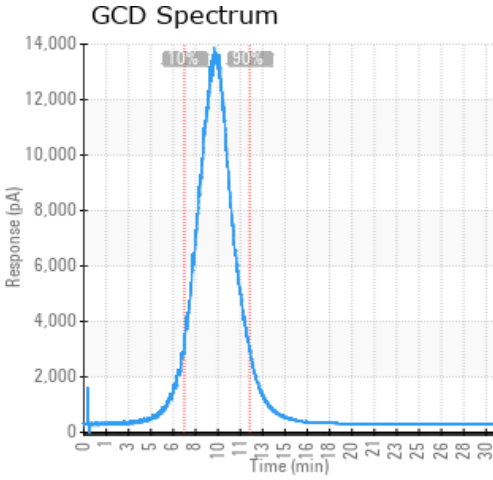
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/17/24	04/30/24	0.0y		349 / 176	1	17.9	0.03	0.006	597 / 314	691 / 366	795 / 424	21.26
03/24/22	03/31/22	0.0y		442 / 228	0.00	36.0	1.03	0.032	719 / 382	819 / 437	926 / 497	0.36
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
04/17/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/24/22	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	237	0
Baseline Data			0	0						0			0	0				0	0				0	

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



Historical Comments

03/24/22	Samples from Purity FG HTF fluid stored on site. The heat transfer fluid is free of contamination and meets all the specification acceptable for use (GCD) 90% Distillation Point is abnormally high.

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