

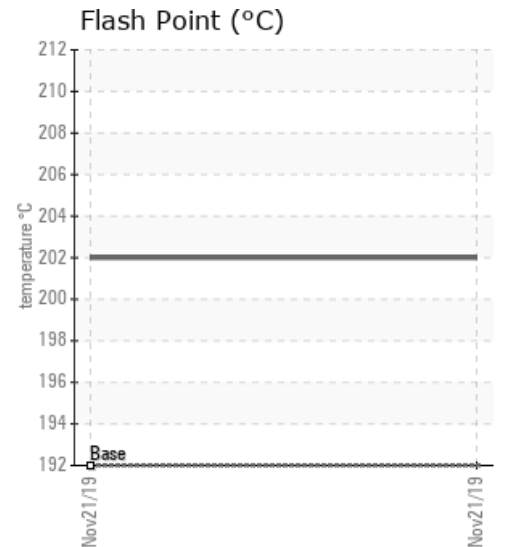
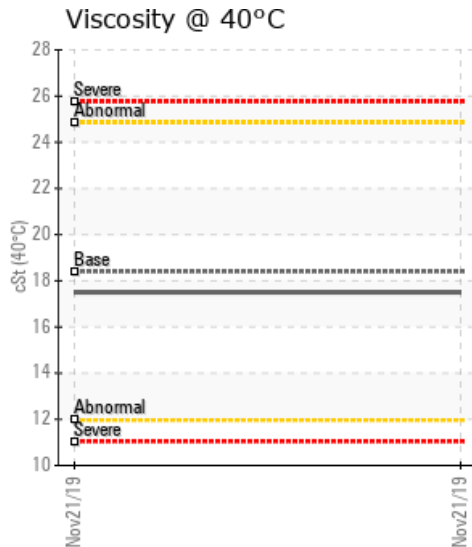
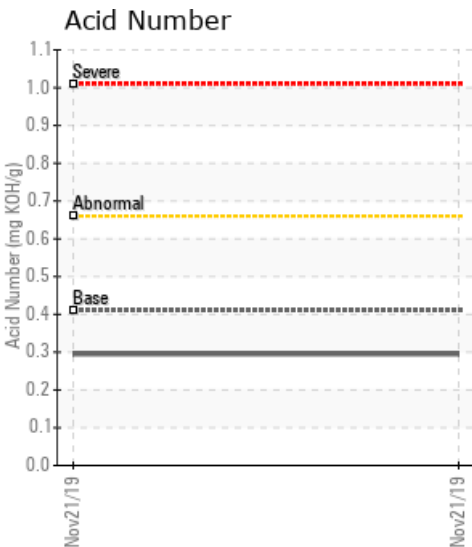
RRRTANK

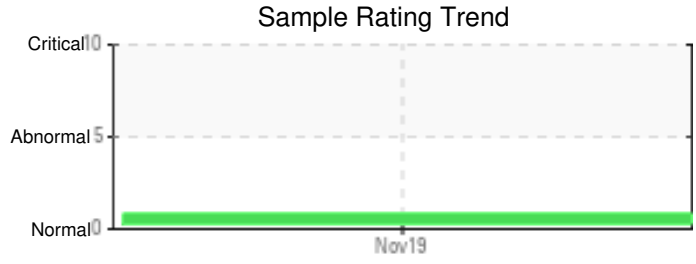
Customer: PTRHTF30107	System Information	Sample Information
D-CONSTRUCTION 16805 QUARRY RD MORRIS, IL 60450 USA Attn: Chris Lenzie Tel: (815)405-6831 E-Mail: clenzie@sandenoinc.com	System Volume: 2000 gal Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: HEAT TRANSFER FLUID ISO 15 Make:	Lab No: 02322038 Analyst: Yvette Trzcinski Sample Date: 11/21/19 Received Date: 11/22/19 Completed: 12/03/19

Recommendation: The fluid name is not listed on this sample and does not match the viscosity of the Pritherm NF-1 that customer mentioned was the fluid in use- need to verify what fluid is in the system. This fluid is experiencing thermal degradation - 90% distillation point is low, but low boilers and solids are within acceptable limits as well as the Acid number - resample in 6 months

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

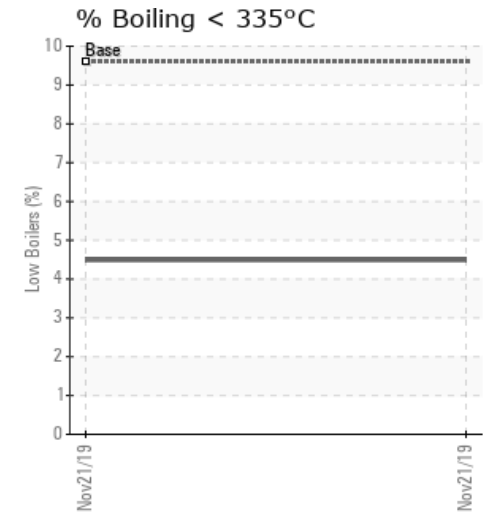
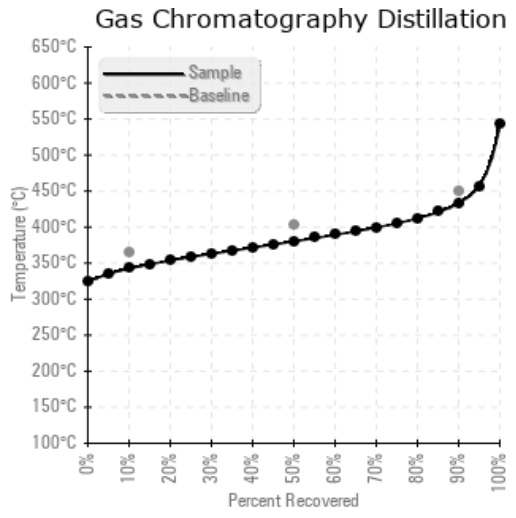
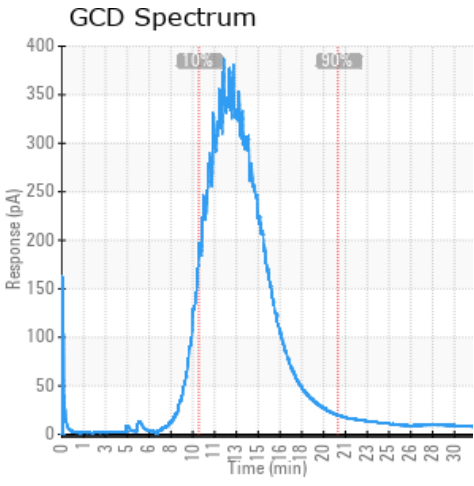
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/21/19	11/22/19	5y		396 / 202	14.3	17.5	0.295	0.088	648 / 342	716 / 380	812 / 433	4.49
Baseline Data				378 / 192		18.4	0.41		687 / 364	756 / 402	840 / 449	9.6





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
11/21/19	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0		0	0					5					250	

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



Historical Comments

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