

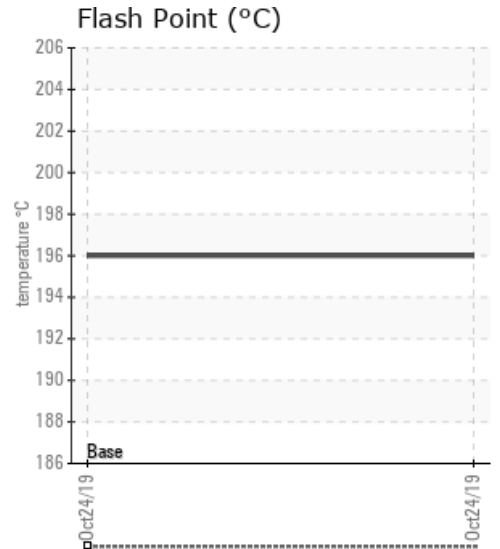
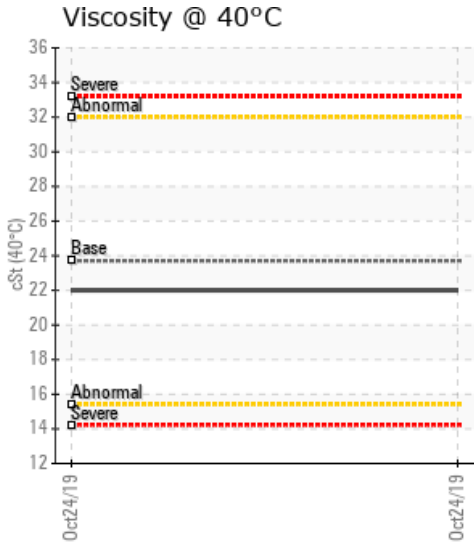
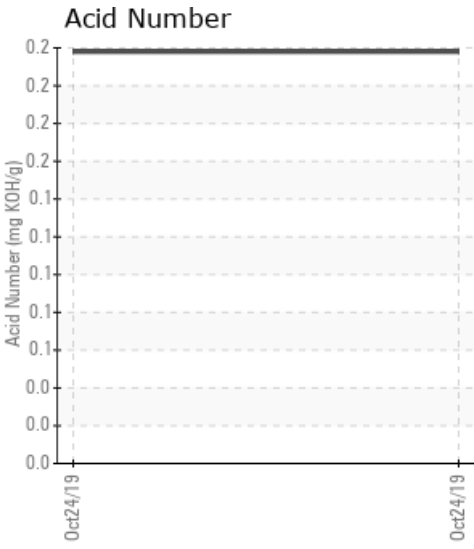
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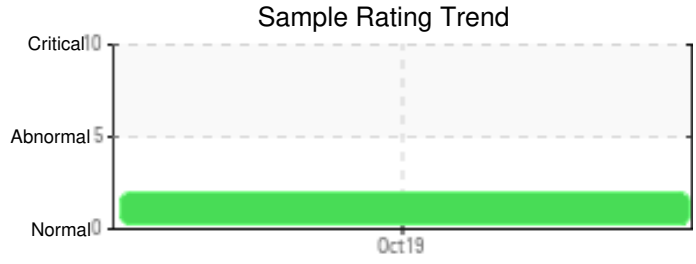
Customer: PTRHTF30107	System Information	Sample Information
D-CONSTRUCTION 16805 QUARRY RD MORRIS, IL 60450 USA Attn: Chris Lenzie Tel: (815)405-6831 E-Mail: clenzie@sandenoinc.com	System Volume: 0 gal Bulk Operating Temp: 340F / 171C Heating Source: Blanket: Fluid: EASTMAN THERMINOL XP Make: BURKE	Lab No: 02322039 Analyst: Yvette Trzcinski Sample Date: 10/24/19 Received Date: 11/22/19 Completed: 12/10/19

Recommendation: Customer stated sample is Pritherm NF-1 an ISO 22 heat transfer fluid the 90% distillation point is high which would mean the fluid is beginning to degrade or oxidize, but the acid number and viscosity appear within specification and the solids are low. Resample in 6 months

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

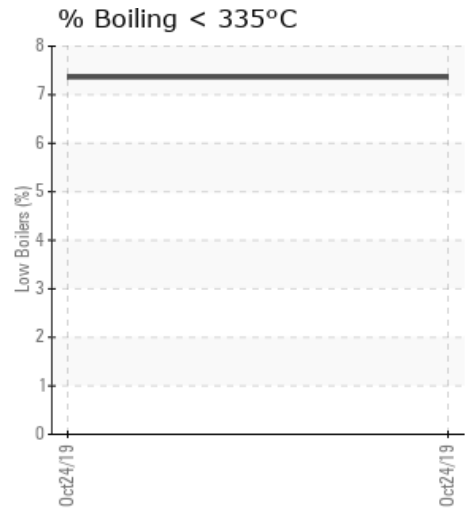
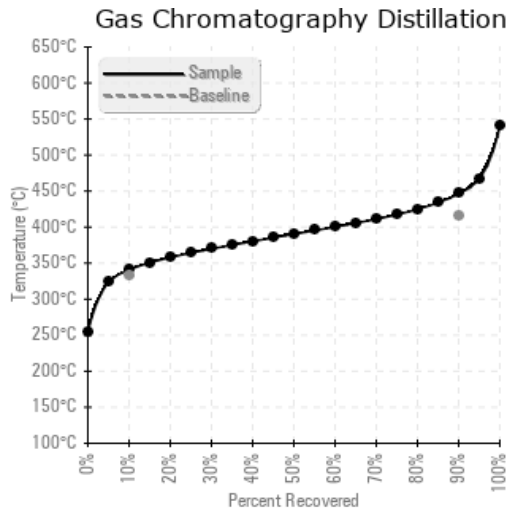
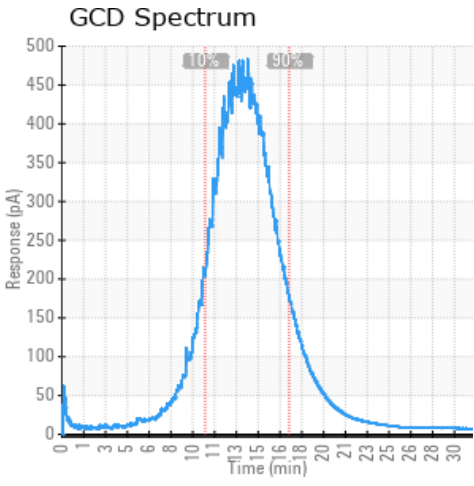
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/24/19	11/22/19	0h		385 / 196	30.8	22.0	0.218	0.241	645 / 341	735 / 390	835 / 446	7.36
Baseline Data				360 / 182		23.7			630 / 332		781 / 416	





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
10/24/19	16	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	8	0	0	5
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

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