

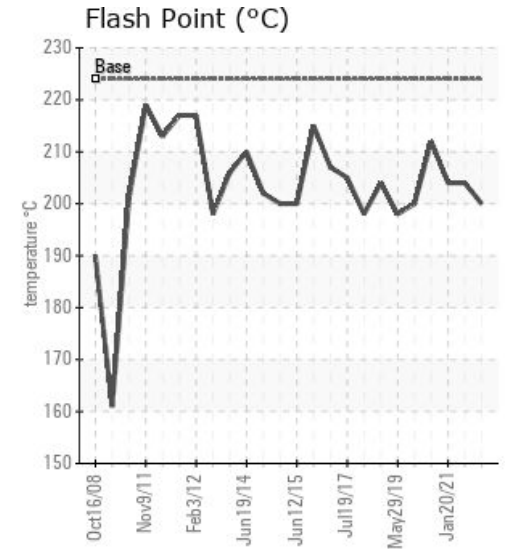
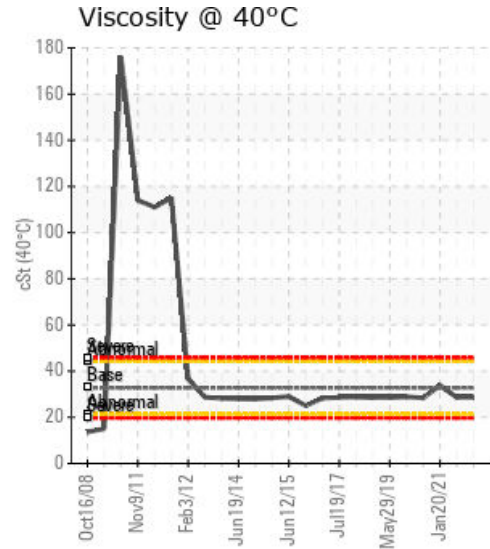
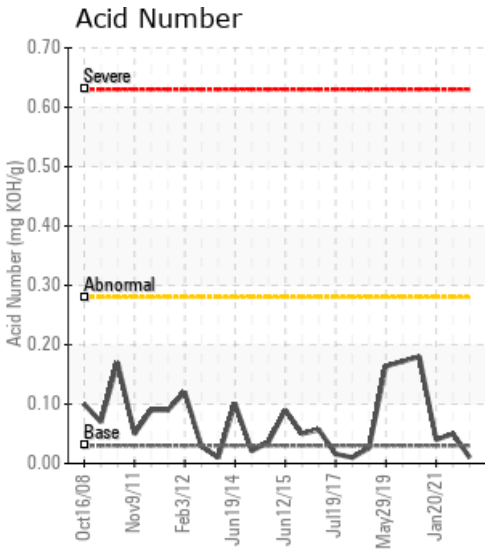
STILLYARD

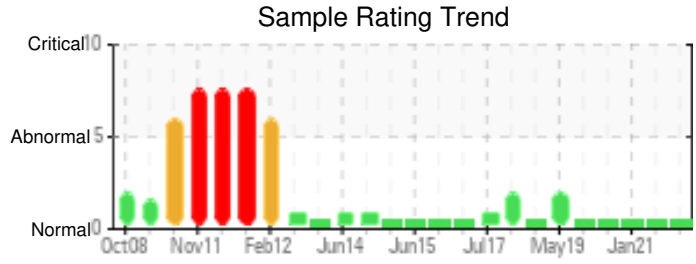
Customer: PTRHTF10068	System Information	Sample Information
Certainteed - Saint Gobain 1077 PLEASANT ST NORWOOD, MA 02062 USA Attn: David Fletcher Tel: (781)551-0656 E-Mail: david.r.fletcher@saint-gobain.com	System Volume: 3000 gal Bulk Operating Temp: 550F / 288C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: C.E. COOPER	Lab No: 02466656 Analyst: Joe Goecke Sample Date: 01/06/22 Received Date: 01/18/22 Completed: 01/19/22 Joe Goecke joe.goecke@hollyfrontier.com

Recommendation: Sample looks good, no issues to address. Continue to use as normal and resample and next scheduled interval

Comments:

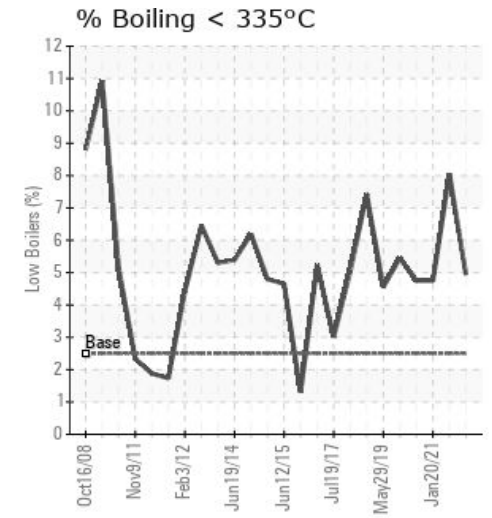
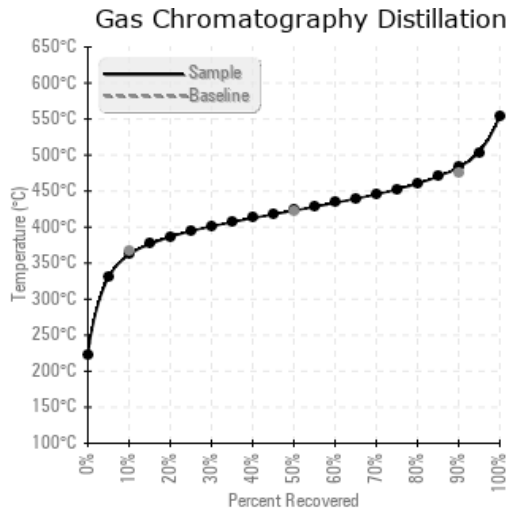
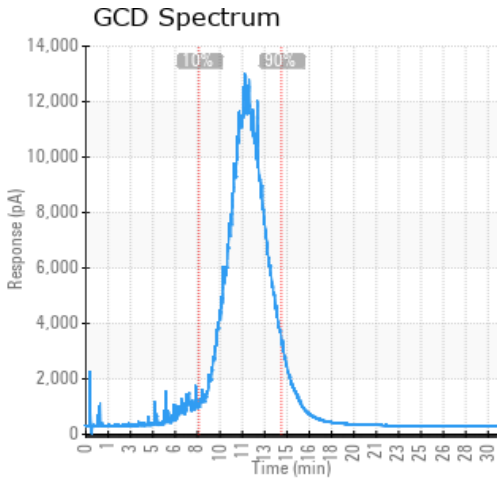
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/06/22	01/18/22	10.0y	suction to circ pump	392 / 200	13.9	28.6	0.01	0.089	684 / 362	793 / 423	901 / 483	4.94
08/30/21	09/10/21	9.0y	suction to circ pump	399 / 204	15.3	28.6	0.05	0.053	650 / 343	768 / 409	900 / 482	8.05
01/20/21	01/28/21	9.0y	Suction to pump	399 / 204	9.6	33.8	0.04	0.120	685 / 363	795 / 424	904 / 484	4.75
05/04/20	05/13/20	8.0y	SUCTION	414 / 212	13.9	28.4	0.18	0.143	685 / 363	795 / 424	903 / 484	4.75
09/20/19	10/01/19	8.0y	SUCTION TO CIRC.PUMP	392 / 200	24.0	28.9	0.172	0.156	675 / 357	786 / 419	888 / 476	5.45
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
01/06/22	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	27	0
08/30/21	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	31	0
01/20/21	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	30	0
05/04/20	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	23	0
09/20/19	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Baseline Data			0	0						0			0	0					0				270	

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



Historical Comments

08/30/21	Low boilers just over 8%. Continue and resample at next scheduled date. all other data is good.
01/20/21	Sample results for the Stillyard continue to be in line of a fluid in good condition. Viscosity, Acid number, COC Flash Point and GCD have remained constant. Continue to sample on a routine basis to assist in monitoring the fluid condition.
05/04/20	The latest report looks similar to previous. The low boilers GCD 10% has risen to 363 vs previous @ 357, but has not had a negative effect on the Flash Point, which has increased by 12 degrees C. Viscosity and Acid numbers remain constant. Continue to monitor at the current intervals.
09/20/19	System fluid reports Normal. Test and monitor as usual.

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