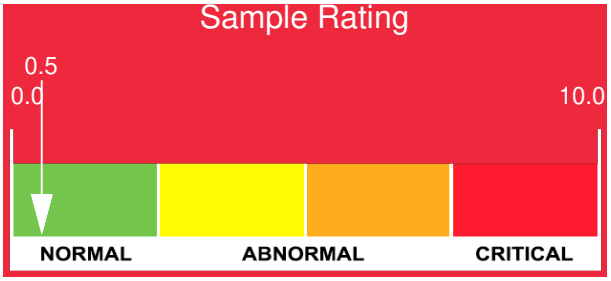
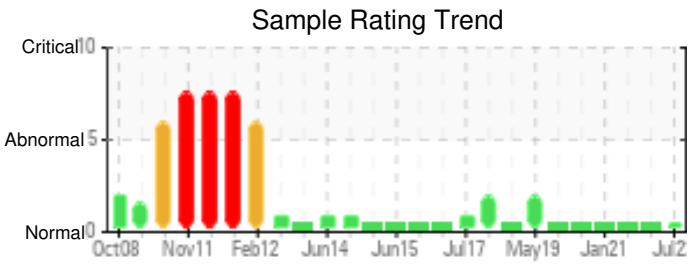




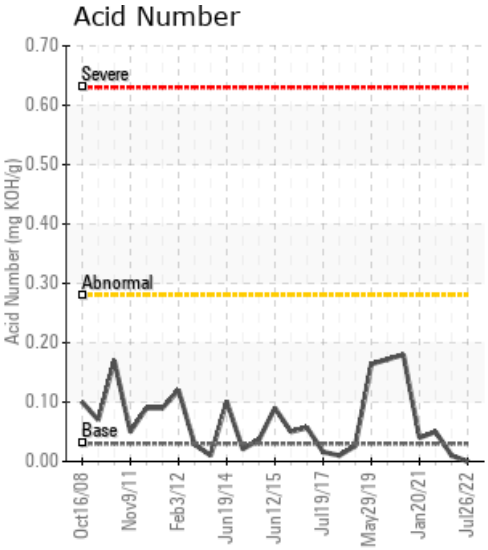
STILLYARD

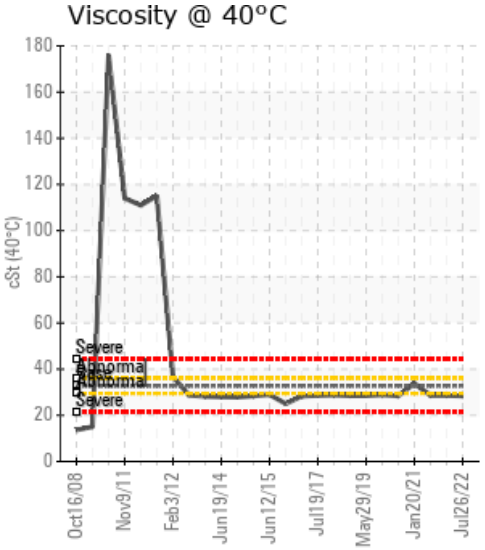
Customer: PTRHTF10068	System Information	Sample Information
Certainteed - Saint Gobain 1077 PLEASANT ST NORWOOD, MA 02062 USA Attn: Marc Gelin Tel: (781)278-0466 E-Mail: marc.gelin@saint-gobain.com	System Volume: 3000 gal Bulk Operating Temp: 550F / 288C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: C.E. COOPER	Lab No: 02503400 Analyst: Gregory Fernandez Sample Date: 07/26/22 Received Date: 08/04/22 Completed: 08/16/22 Gregory Fernandez gregory.fernandez@hfsinclair.com

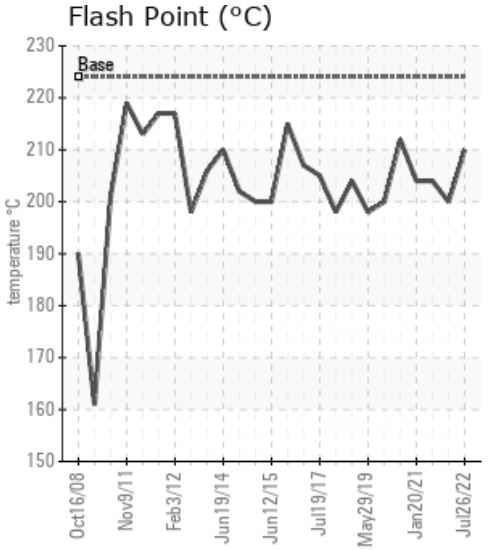
Recommendation: Sample results look overall good for this system with no concerns for low boiler results. Pentane Insolubles have risen noticeably and could merit checking filtration to assure that it is functioning properly. In general, system is suitable for continued service until the next scheduled sample interval.

Comments: Pentane Insolubles levels are abnormally high. Visc @ 40°C is abnormally low.

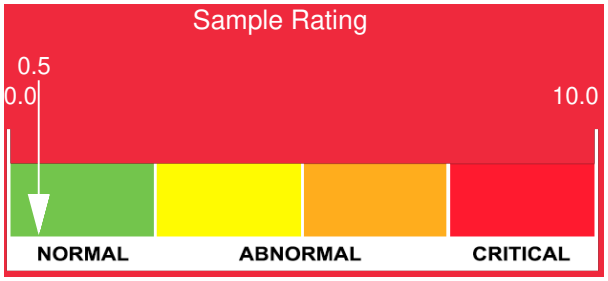
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/26/22	08/04/22	10.0y	suct. to circ. pump	410 / 210	17.0	28.4	0.00	0.443	688 / 364	795 / 424	902 / 483	4.52
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
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5

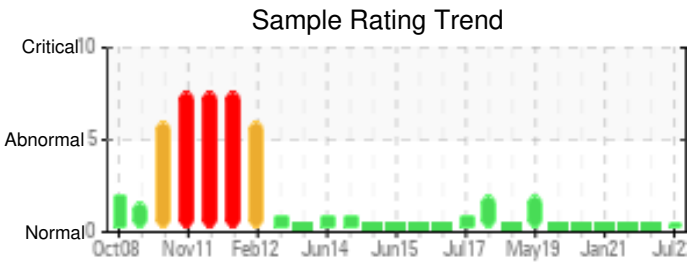






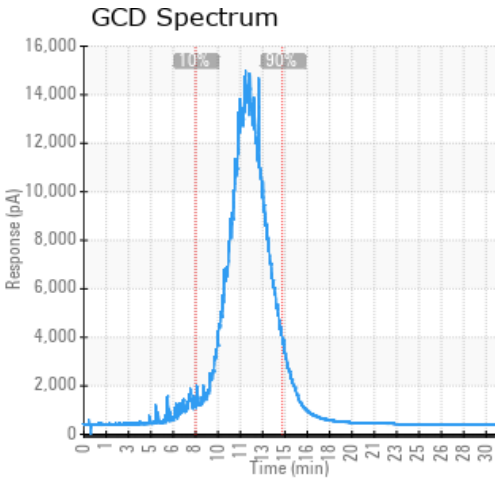
PETRO-CANADA LUBRICANTS

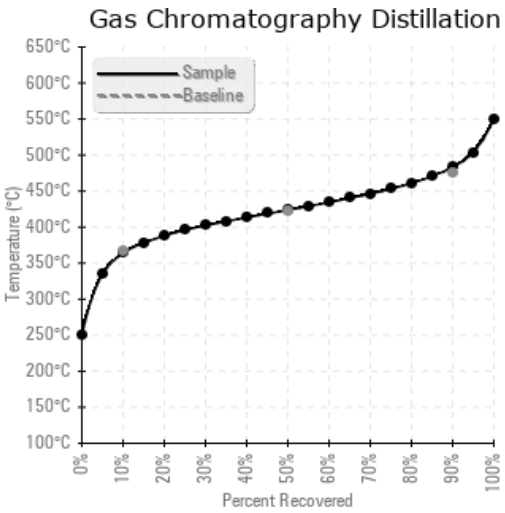


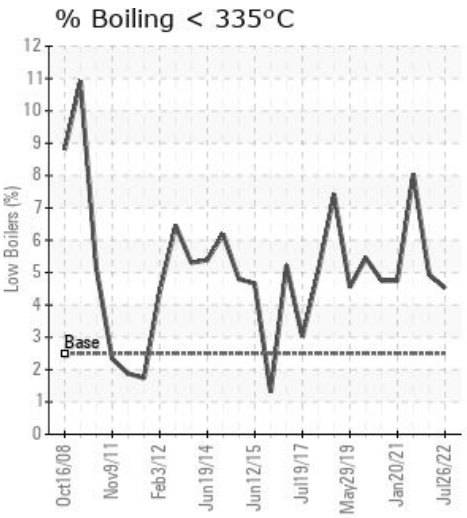


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
07/26/22	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	24	0
01/06/22	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	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
Baseline Data			0	0						0			0	0					0				270	

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







Historical Comments

01/06/22	Sample looks good, no issues to address. Continue to use as normal and resample and next scheduled interval
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.

