

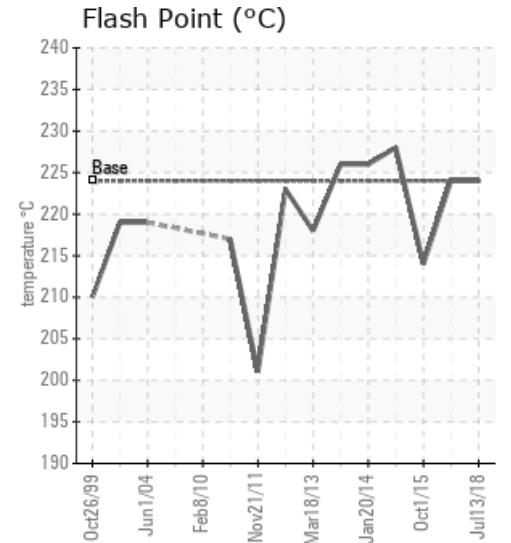
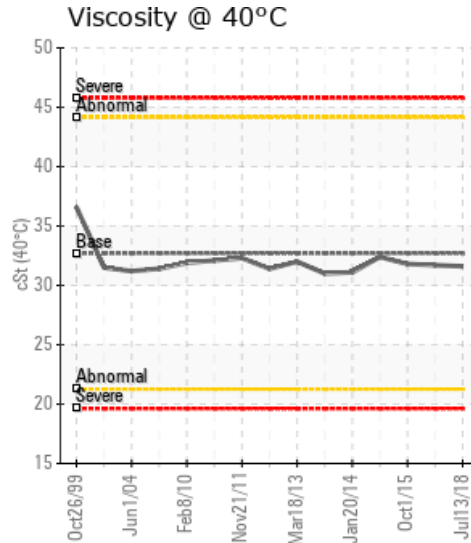
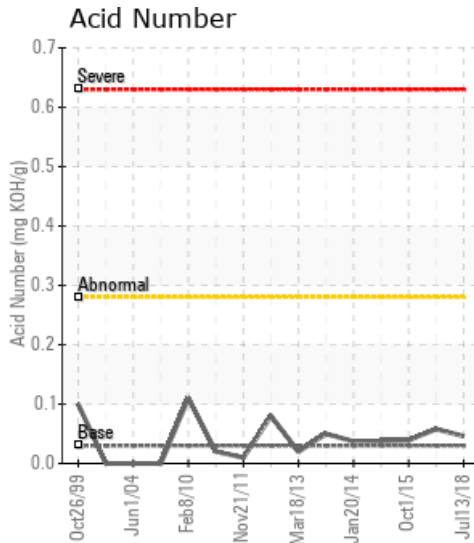
## #4 REACTOR

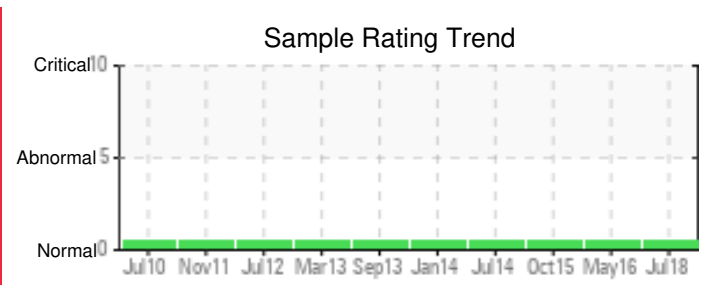
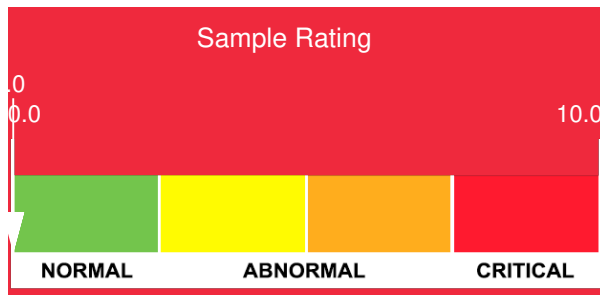
Customer: PTRHTF20087	System Information	Sample Information
Celanese Eva Performance Poly 4405-101 AVE. P.O. 428 EDMONTON, AB T5J 2K1 Canada Attn: Erik Halyk Tel: (780)468-0723 E-Mail: erik.halyk@celanese.com	System Volume: 2000 ltr Bulk Operating Temp: 210F / 99C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02229329 Analyst: Gordon Susinski Sample Date: 07/13/18 Received Date: 07/19/18 Completed: 07/24/18 To discuss this report contact Gordon Susinski at (587)582-4118

Recommendation: Results are normal

Comments:

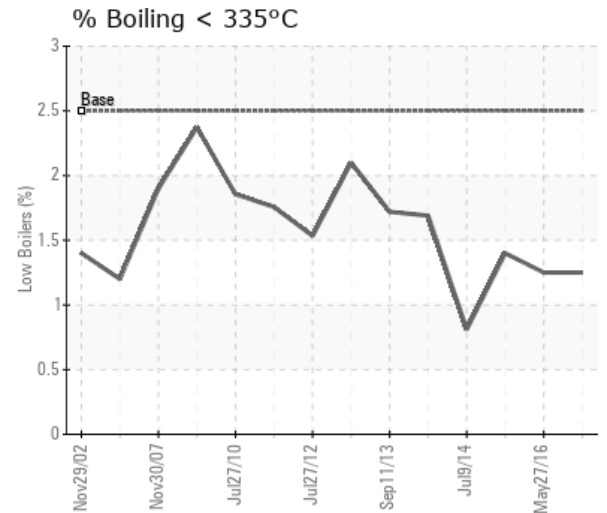
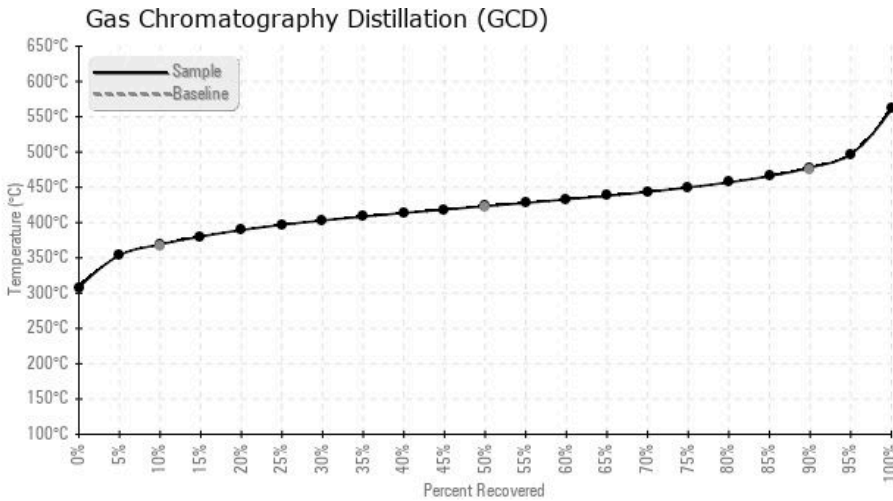
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/13/18	07/19/18	0h		435 / 224	0.00	31.6	0.046	0.045	696 / 369	794 / 423	892 / 478	1.25
05/27/16	05/31/16	0h	PIPING	435 / 224	0.00	31.7	0.058	0.048	700 / 371	800 / 427	900 / 482	1.25
10/01/15	10/02/15	0h		417 / 214	6.6	31.8	0.039	0.028	696 / 369	795 / 424	896 / 480	1.40
07/09/14	07/14/14	0h	4R CALFLO BAY	442 / 228	4.9	32.4	0.038	0.066	708 / 376	811 / 433	907 / 486	0.81
01/20/14	01/22/14	0h	CALFLO BAY	439 / 226	5.1	31.1	0.037	0.038	693 / 367	795 / 424	892 / 478	1.69
09/11/13	09/20/13	0h		439 / 226	17.5	31.0	0.05	0.112	691 / 366	795 / 424	895 / 479	1.72
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
07/13/18	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	51	0
05/27/16	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	132	0
10/01/15	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	13	0
07/09/14	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	63	0
01/20/14	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	17	0
09/11/13	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	31	1
<b>Baseline Data</b>			0	0						0			0	0					0				270	

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



### Historical Comments

05/27/16	Results are normal. Resample at the next interval and continue to monitor the system.
10/01/15	Results appear normal. Note the lubricant colour darkening in the bottom image. Also note the IBP reduction. Although within normal guidelines, these slight changes should be noted for future interpretation. Resample at next interval and continue to monitor.
07/09/14	Sample is in good condition, sample again at the next scheduled interval. (GCD) 90% Distillation Point is marginally high.
01/20/14	No action required at this time. All indicators are normal and trending with the previous results.
09/11/13	The oil condition looks great. Everything seems normal. Re-sample at next scheduled interval.