

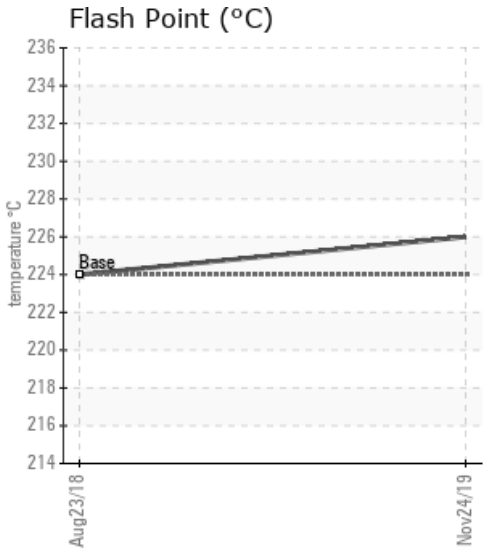
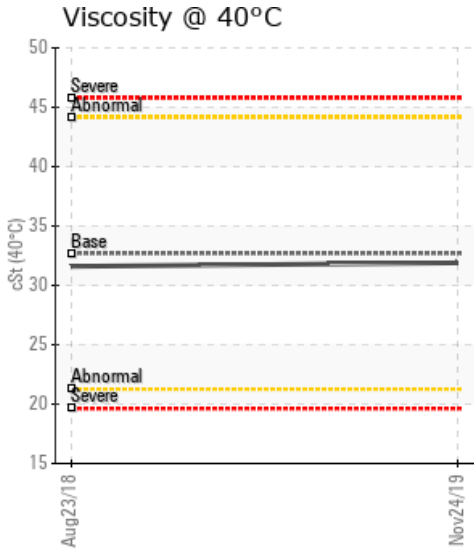
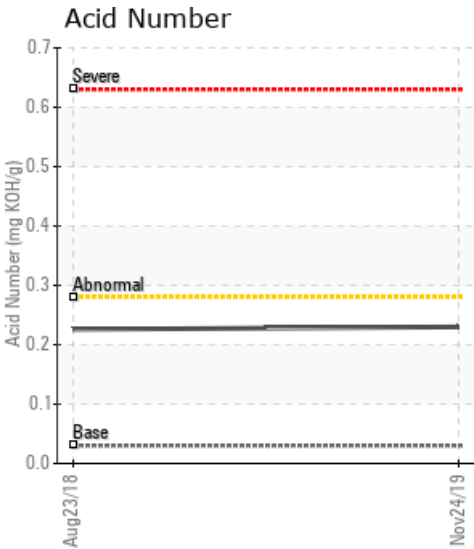
# T14 EMBOSSER SYSTEM 1

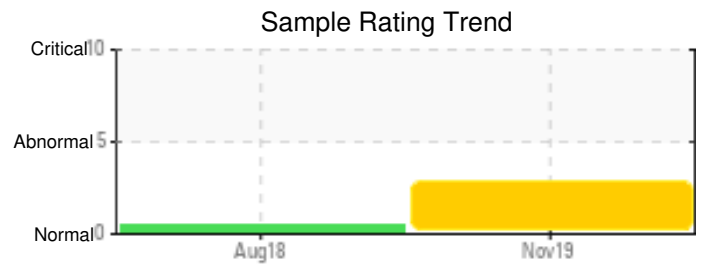
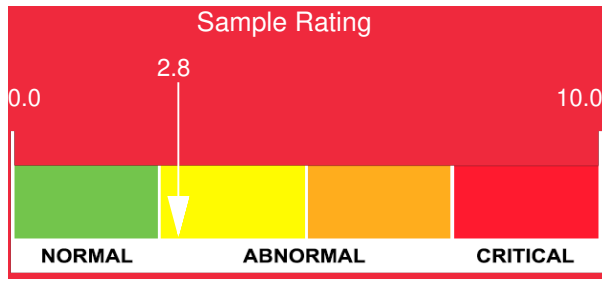
Customer: PTRHTF40077	System Information	Sample Information
BRENNTAG NV NIJVERHFIDSLAAN 38 DEERLIJK, 8540 Belgium Attn: PIETER ACKET Tel: 7(325)678-8404 E-Mail: pieter.acket@brenntag.be	System Volume: 4000 ltr Bulk Operating Temp: 374F / 190C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02326082 Analyst: Philip Riley Sample Date: 11/24/19 Received Date: 12/10/19 Completed: 12/17/19

Recommendation: Slight drift from the GCD Distillation at 50% and 90% but nothing of concern. All other parameters remain good. Fluid fit for further use and please re-sample again in 12 months

Comments: (GCD) 90% Distillation Point is severely high. (GCD) 50% Distillation Point is marginally high.

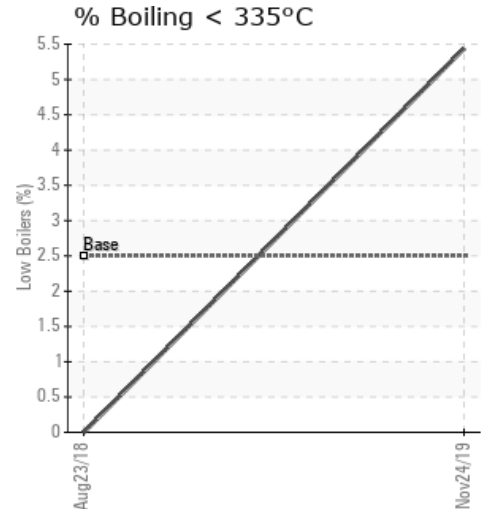
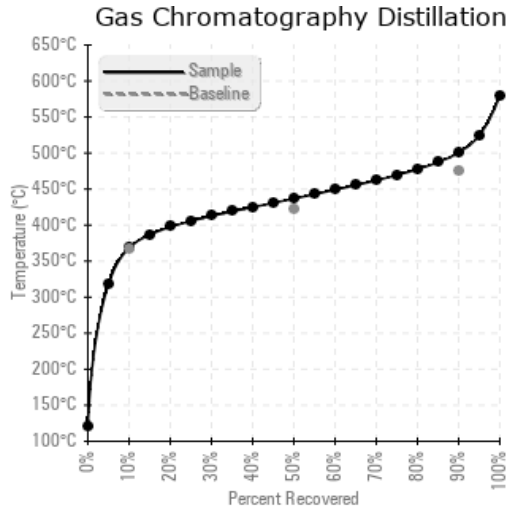
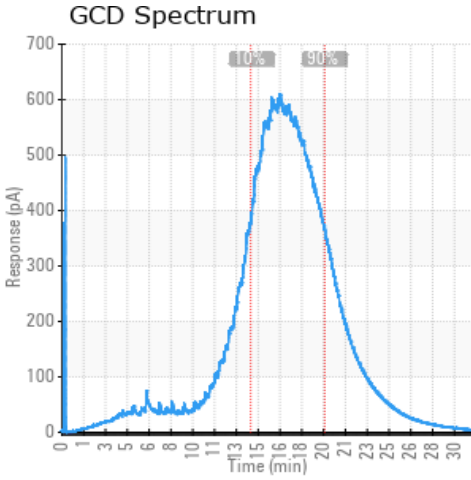
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/24/19	12/10/19	50m		439 / 226	24.0	31.9	0.230	0.079	696 / 369	818 / 437	933 / 501	5.44
08/23/18	09/18/18	0m		435 / 224	32.3	31.6	0.226	0.227	706 / 374	793 / 423	897 / 480	0.00
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
11/24/19	14	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	57	3
08/23/18	9	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	37	2
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

08/23/18	All parameters within normal limits and fluid fit for further use

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