

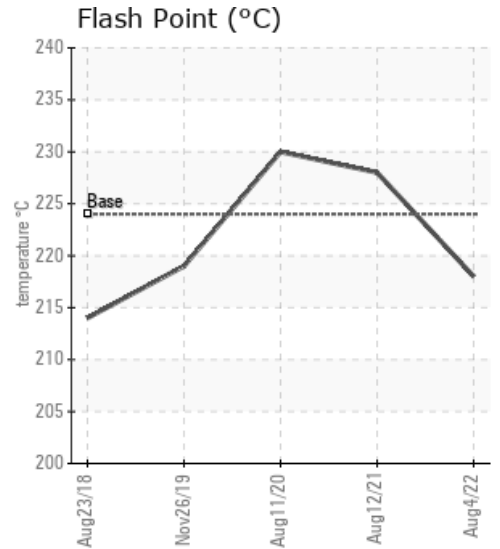
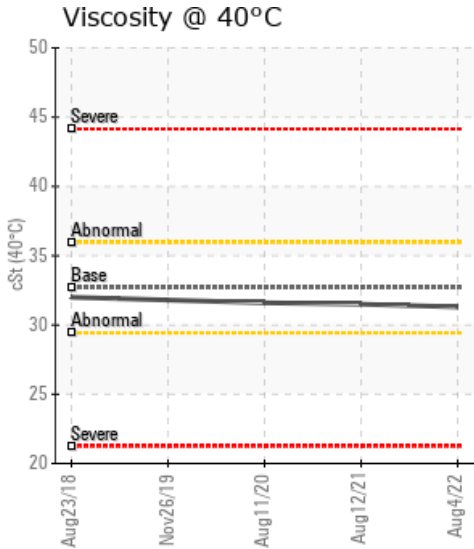
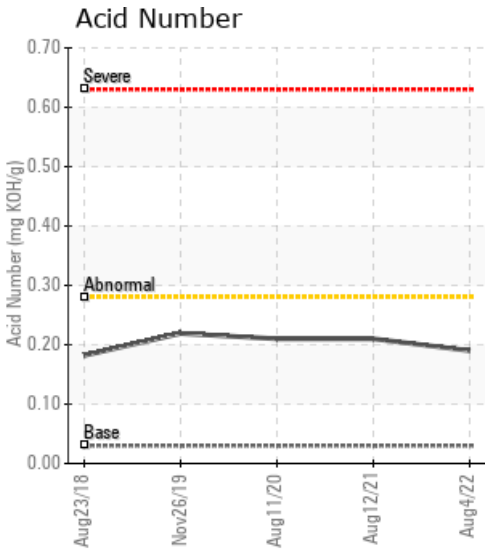
## T14 EMBOSSER SYSTEM 2

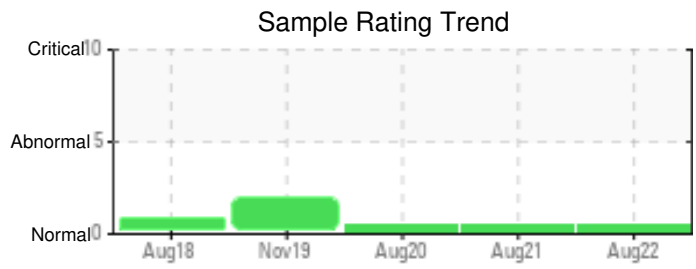
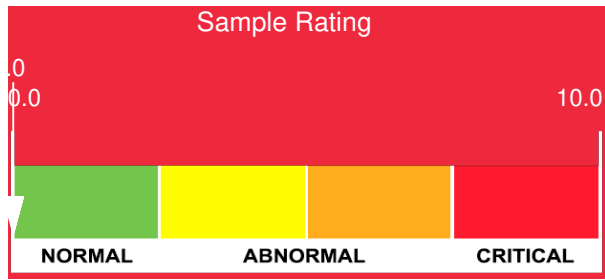
Customer: PTRHTF40077	System Information	Sample Information
BRENNTAG NV NIJVERHFIDSLAAN 38 DEERLIJK, 8540 Belgium Attn: PIETER ACKET Tel: 7(325)678-8404 E-Mail: pieter.acket@brenntag.be	System Volume: 4000 ltr Bulk Operating Temp: 374F / 190C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02507780 Analyst: Alexander Panov Sample Date: 08/04/22 Received Date: 08/29/22 Completed: 09/01/22 Alexander Panov alex.panov@hollyfrontier.com

Recommendation: All fluid parameters meet expected values. Fluid fit for further use. Please re-sample at normal frequency. Please include the data for oil age, unit age etc on future samples

Comments:

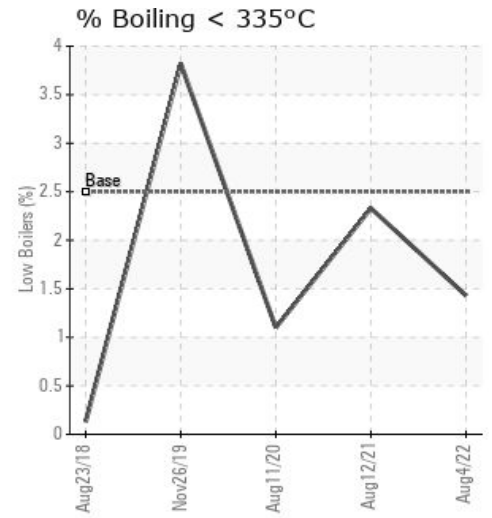
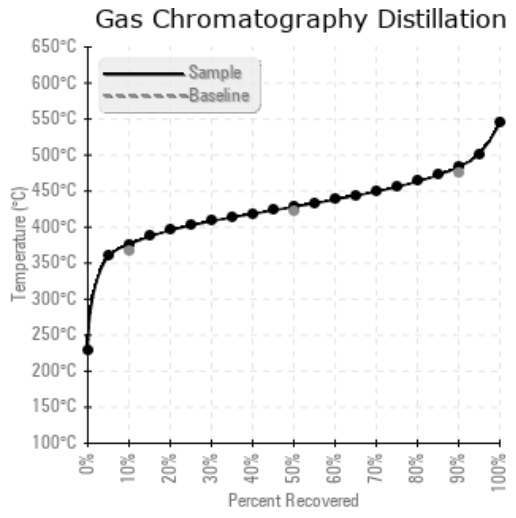
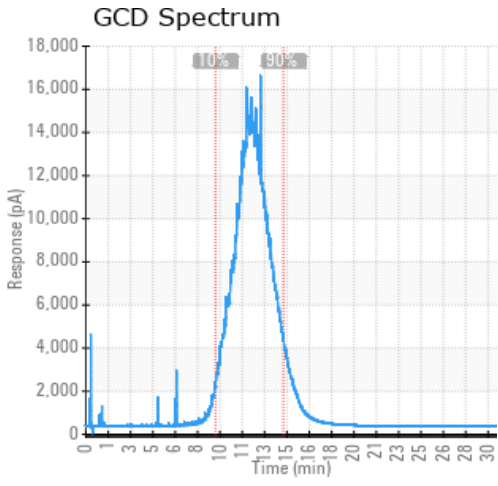
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
08/04/22	08/29/22	84.0m		424 / 218	106.4	31.3	0.19	0.034	708 / 376	803 / 428	902 / 484	1.43
08/12/21	08/27/21	0.0m		442 / 228	38.6	31.5	0.21	0.089	703 / 373	802 / 428	903 / 484	2.33
08/11/20	08/14/20	0.0m		446 / 230	33.3	31.6	0.21	0.075	711 / 377	804 / 429	904 / 485	1.10
11/26/19	12/10/19	50.0m		426 / 219	37.4	31.8	0.219	0.083	697 / 369	810 / 432	928 / 498	3.82
08/23/18	09/18/18	0.0m		417 / 214	25.8	32.0	0.182	0.056	706 / 375	804 / 429	910 / 488	0.13
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
08/04/22	9	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	52	2
08/12/21	14	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	65	3
08/11/20	15	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	56	3
11/26/19	13	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	50	3
08/23/18	8	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	28	2
<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	
08/12/21	Resample at the next service interval to monitor. (not applicable) The water content is negligible. There is no indication of any contamination in the fluid. The condition of the fluid is suitable for further service.
08/11/20	All fluid parameters meet expected values. Fluid fit for further use. Please re-sample at normal frequency. Please include the data for oil age, unit age etc on future samples
11/26/19	Drift from normal in GCD Distillation at 90%. All other parameters on spec and fluid fit for further use. Please resample in 12 months (GCD) 90% Distillation Point is severely high.
08/23/18	No results of any concern related to the oil, which is a recent change looking at the oil age. Fluid suitable for further use (GCD) 90% Distillation Point is marginally high.

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