

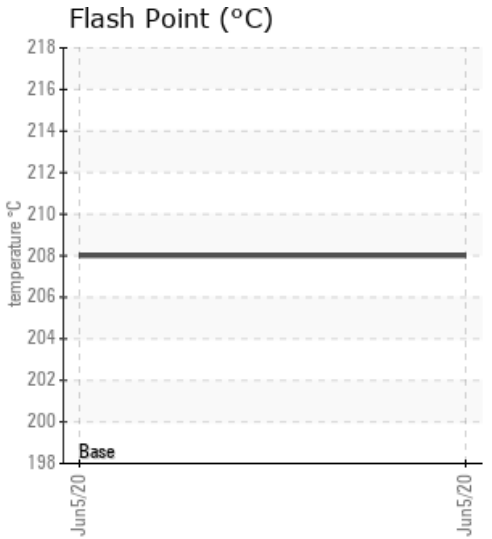
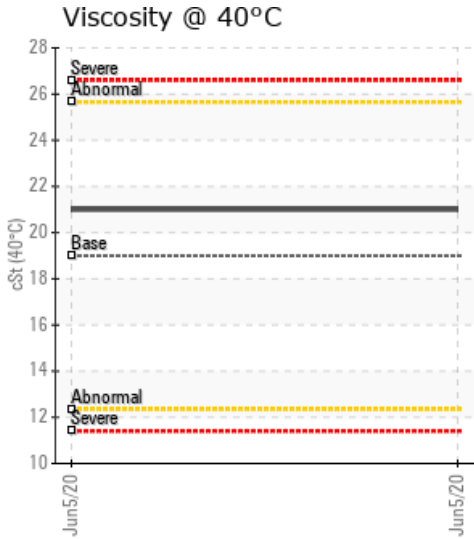
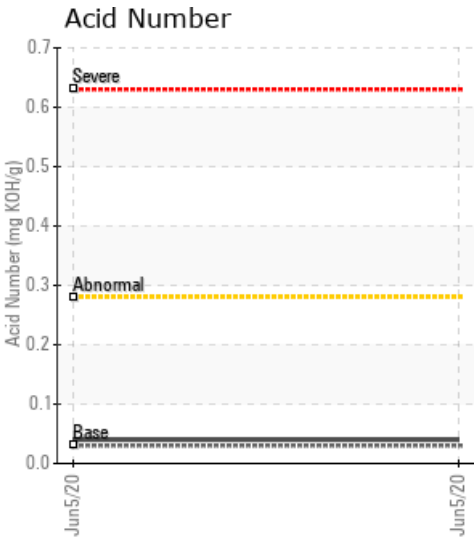
[LSD 12-35-70-09W6] TIDEWATER

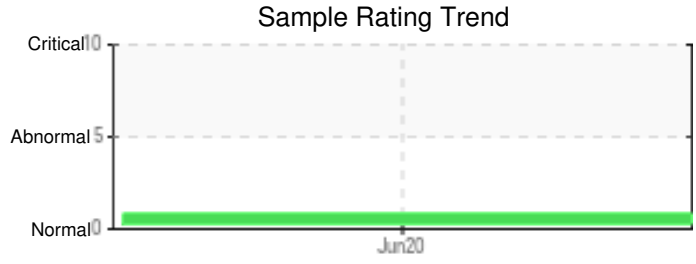
Customer: PTRHTF20046	System Information	Sample Information
QUADRA CHEMICALS 12925 146TH STREET EDMONTON, AB T5L 2H6 CANADA Attn: Quadra Samples Tel: E-Mail: quadra_samples@quadra.ca	System Volume: 0 ltr Bulk Operating Temp: 410F / 210C Heating Source: Blanket: Fluid: EASTMAN THERMINOL 55 Make: CLEAVER BROOKS	Lab No: 02363009 Analyst: Clinton Buhler Sample Date: 06/05/20 Received Date: 07/06/20 Completed: 07/08/20 Clinton Buhler Clinton.Buhler@PetroCanadaLSP.com

Recommendation: Sample results would indicate that the fill of Therminol 55 is suitable for continued service. Please re-sample in 12 months

Comments: (GCD) 90% Distillation Point is abnormally high.

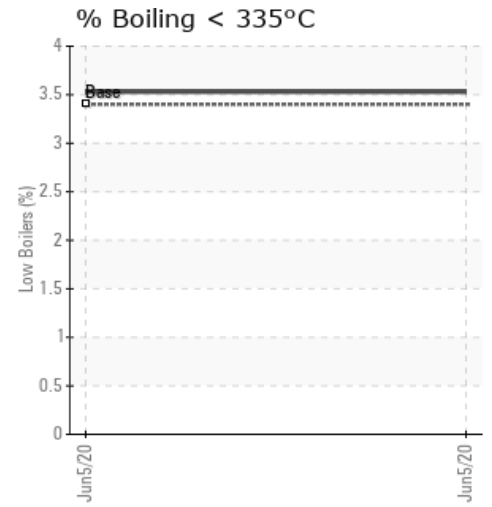
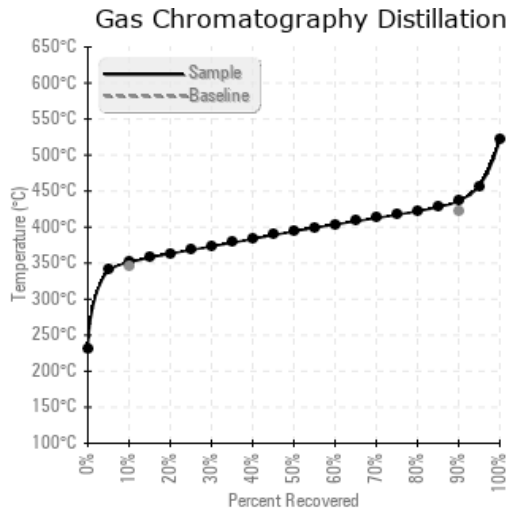
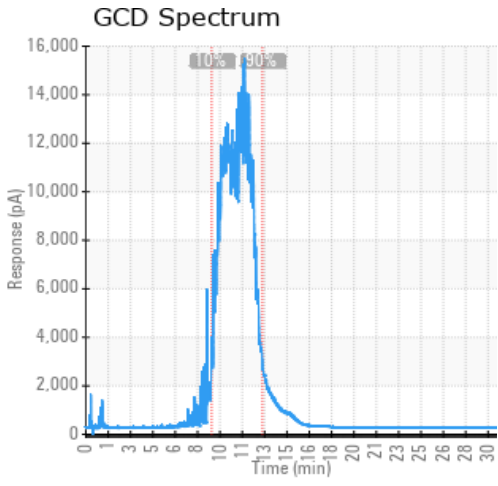
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/05/20	07/06/20	9m		406 / 208	35.0	21.0	0.04	0.091	663 / 351	741 / 394	817 / 436	3.53
Baseline Data				349 / 176		19.0	0.03		655 / 346		790 / 421	3.40





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
06/05/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0	

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



Historical Comments

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