

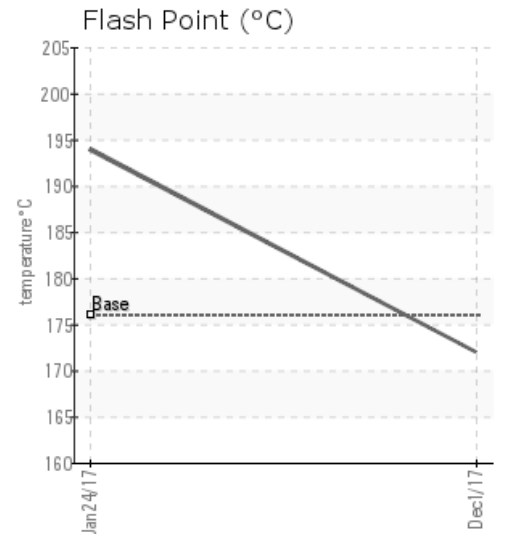
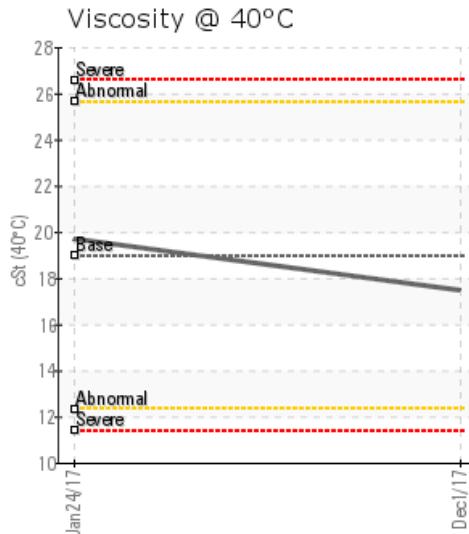
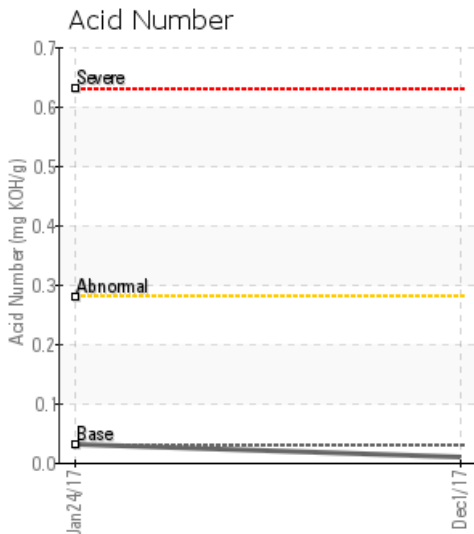
## [CRESCENT POINT ENERGY / 9-16-1-14W2] FLAT LAKE HOT OIL SYSTEM

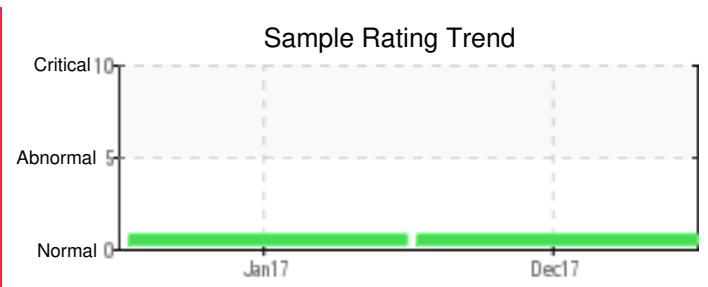
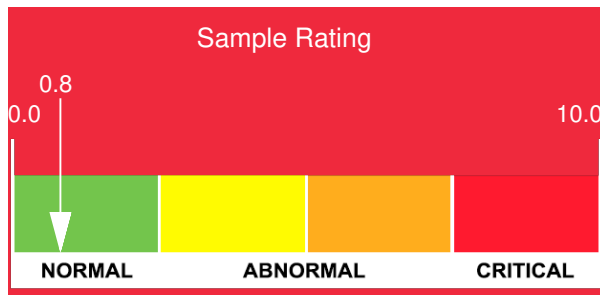
Customer: PTRHTF20180	System Information	Sample Information
CRESCENT POINT ENERGY 801 RAILWAY AVE W CARLYLE, SK S0C 0R0 Canada Attn: Jared Garnier Tel: E-Mail: jgarnier@crescentpointenergy.com	System Volume: 35000 ltr Bulk Operating Temp: 347F / 175C Heating Source: Blanket: Fluid: MONSANTO THERMINOL 55 Make: HEAT TECH	Lab No: 02186971 Analyst: Kevin McDermott Sample Date: 12/01/17 Received Date: 12/08/17 Completed: 12/15/17 To discuss this report contact Kevin McDermott at (403)215-7052

Recommendation: Fluid remains in very good overall condition. No sign of free water that we saw in Jan 2017. Slight increase in GCD temps. Suggest annual sampling to be proactive.

Comments: (GCD) Distillation Points are increasing slightly, particularly the 90% value is in the 'abnormal' range.

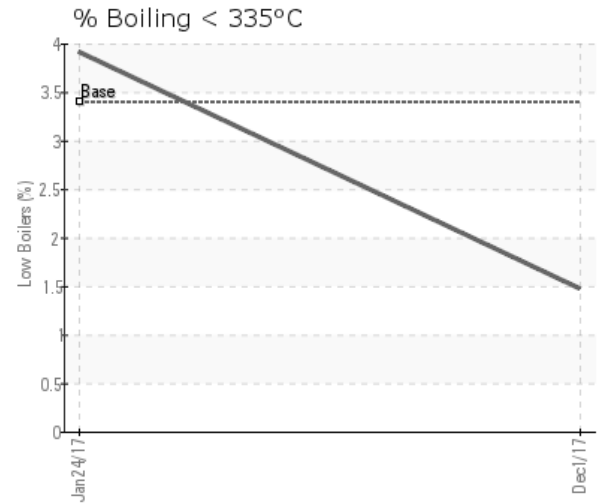
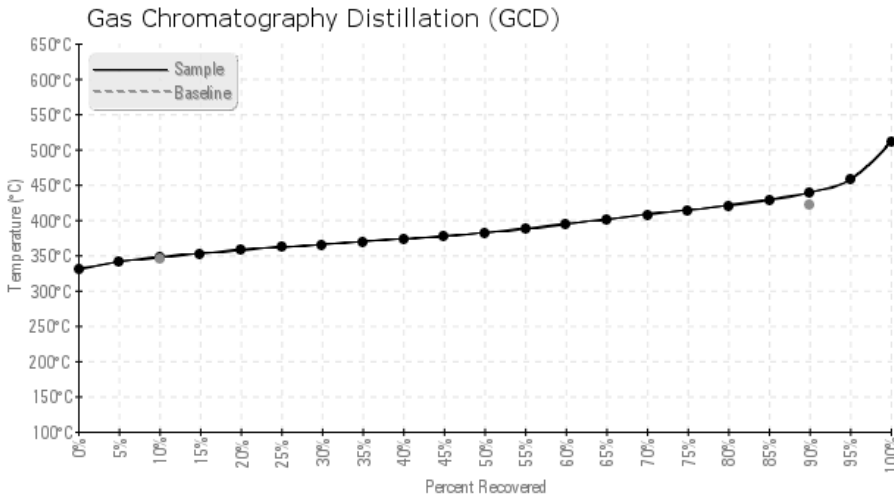
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/01/17	12/08/17	25m		342 / 172	50.6	17.5	0.009	0.032	657 / 347	719 / 382	822 / 439	1.47
01/24/17	01/27/17	15m	CIRC PUMP SUCTION	381 / 194	144.5	19.7	0.032	0.009	649 / 343	706 / 375	795 / 424	3.91
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		
12/01/17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
01/24/17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	0		
<b>Baseline Data</b>																										
			0	0						0			0	0					0				0			

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



Historical Comments	
01/24/17	Fluid is in very good condition. The only concern is the .2% free water. To be proactive, suggest submitting samples annually or sooner but only if the system conditions become severe.

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