

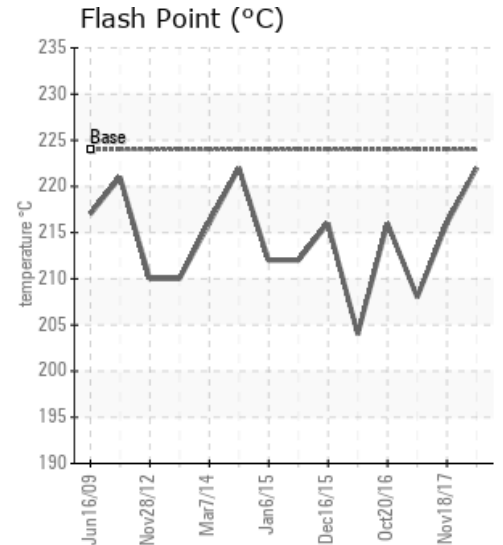
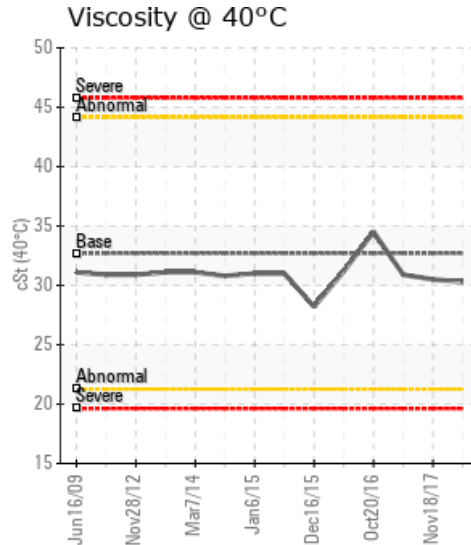
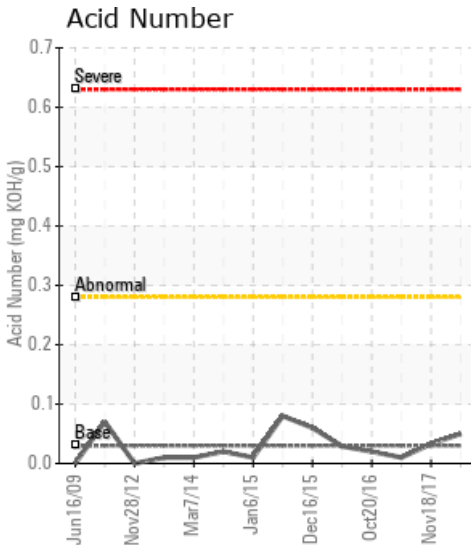
## PHASE 2

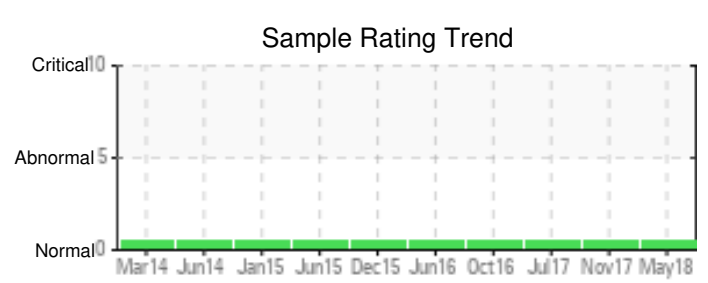
Customer: PTRHTF10092	System Information	Sample Information
<b>REC GROUP</b> 119410 RICK JONES WAY BUTTE (SILVER BOW), MT 59750 USA Attn: ZACK KELLY Tel: (406)496-9717 E-Mail: zack.kelly@recgroup.com	System Volume: 41640 gal Bulk Operating Temp: 425F / 218C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: EXOTHERM	Lab No: 02218008 Analyst: Ron LeBlanc Sample Date: 05/14/18 Received Date: 05/24/18 Completed: 05/25/18 To discuss this report contact Ron LeBlanc at (541)678-7044

Recommendation: Sample appears normal. Re-Sample at regular interval.

Comments:

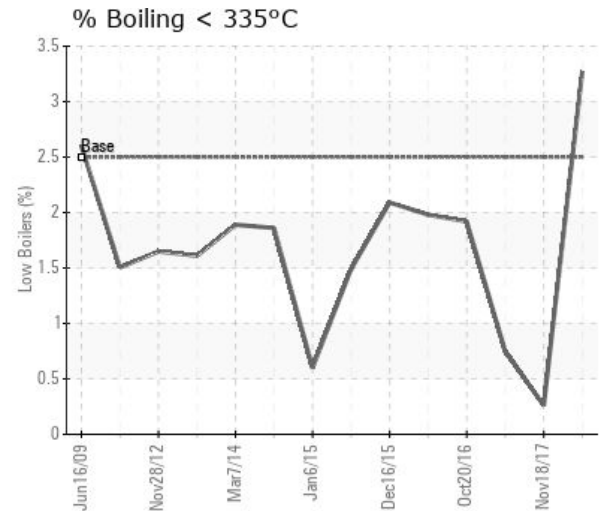
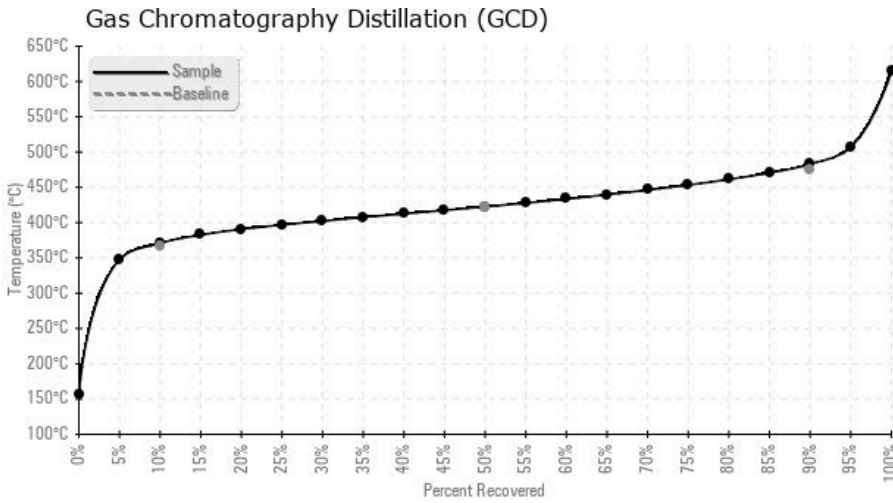
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/14/18	05/24/18	14y	PHASE2 HOT OIL SURGE	432 / 222	8.9	30.3	0.05	0.034	699 / 371	793 / 423	901 / 483	3.27
11/18/17	12/04/17	13y		421 / 216	7.7	30.5	0.033	0.039	683 / 361	765 / 407	894 / 479	0.26
07/19/17	08/03/17	13y	PH2 HOT OIL	406 / 208	15.7	30.9	0.01	0.015	703 / 373	789 / 421	884 / 473	0.75
10/20/16	11/03/16	13y	HOT OIL RETURN	421 / 216	5.1	34.5	0.02	0.044	695 / 368	798 / 426	897 / 480	1.92
06/20/16	06/29/16	12y	UPSTRM EXPNSN DRUM	399 / 204	17.2	31.2	0.029	0.040	688 / 364	787 / 419	899 / 482	1.98
12/16/15	12/30/15	12y	UPSTREAM EXPAN DRUM	421 / 216	19.6	28.2	0.06	0.046	690 / 366	787 / 420	879 / 471	2.09
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	
05/14/18	7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	11	0	
11/18/17	3	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	9	0
07/19/17	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	9	0
10/20/16	2	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	9	0
06/20/16	4	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	9	0
12/16/15	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	9	0
<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	
11/18/17	Sample appears normal. Resample at normal interval.
07/19/17	Sample Normal. No issues detected.
10/20/16	Sample appears normal. Sample in 6 months.
06/20/16	Sample appears normal. Resample in 6 months.
12/16/15	Sample is normal

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