

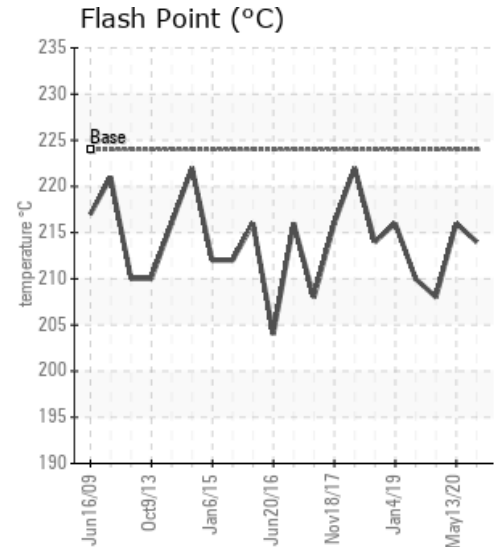
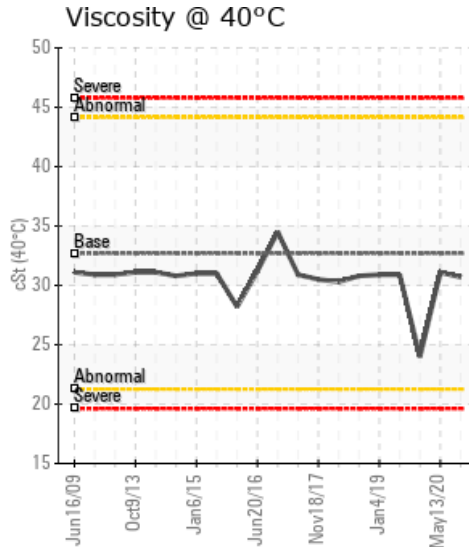
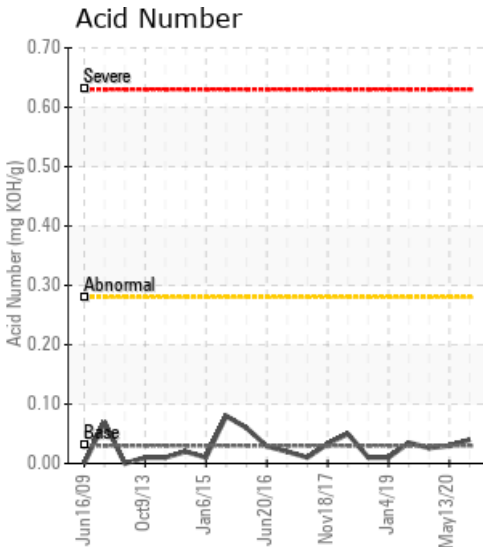
PHASE 2

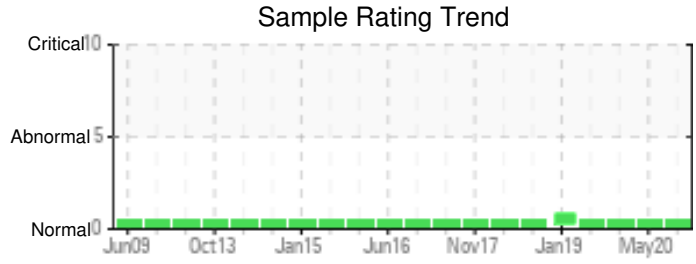
Customer: PTRHTF10092	System Information	Sample Information
REC GROUP 119410 RICK JONES WAY BUTTE (SILVER BOW), MT 59750 USA Attn: ZACK KELLY Tel: (406)496-9717 E-Mail: zack.kelly@recgroup.com	System Volume: 41640 gal Bulk Operating Temp: 425F / 218C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: EXOTHERM	Lab No: 02379938 Analyst: Ron LeBlanc Sample Date: 09/26/20 Received Date: 10/07/20 Completed: 10/13/20 Ron LeBlanc Ronald.LeBlancSr@petrocanadalsp.com

Recommendation: Sample appears normal. All product typicals are within acceptable limits. Re-sample in 6 months.

Comments:

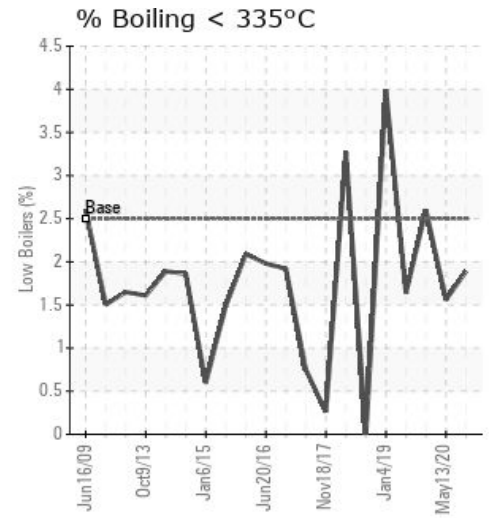
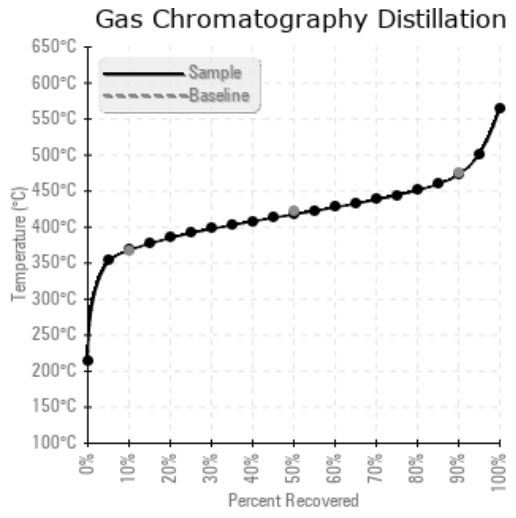
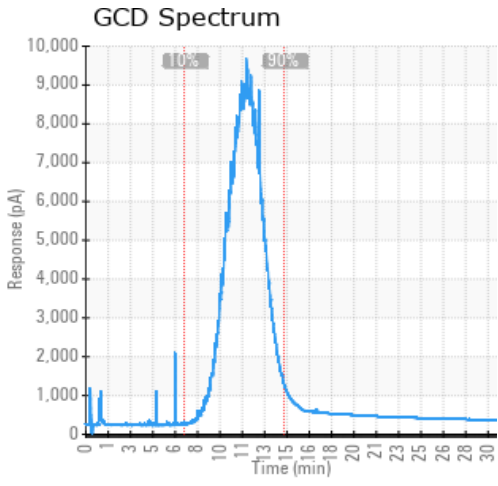
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
09/26/20	10/07/20	15y	Hot oil surge	417 / 214	5.5	30.7	0.04	0.053	694 / 368	784 / 418	883 / 473	1.89
05/13/20	05/29/20	0y	P-2712A	421 / 216	24.6	31.1	0.03	0.119	698 / 370	793 / 423	882 / 472	1.56
10/11/19	11/04/19	0y	PH 2 HOT OIL TANK	406 / 208	0.5	24.0	0.026	0.127	678 / 359	777 / 414	871 / 466	2.60
05/21/19	06/05/19	0y		410 / 210	11.1	30.9	0.035	0.084	691 / 366	789 / 421	884 / 473	1.64
01/04/19	01/25/19	0y		421 / 216	12.4	30.9	0.01	0.041	665 / 352	763 / 406	858 / 459	3.99
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
09/26/20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
05/13/20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
10/11/19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
05/21/19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
01/04/19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
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

05/13/20	Sample appears normal. Sample at regular interval.
10/11/19	Oil appears normal. Sample in 6 months.
05/21/19	Sample appears normal. Re-sample at normal interval.
01/04/19	(GCD) 90% Distillation Point has dropped from previous sample. Pentane insolubles have increased from previous sample. Take another sample in 1 month. (GCD) 90% Distillation Point is abnormally low.

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