

## PHASE 2

**Customer: PTRHTF10092**  
 REC GROUP  
 119410 RICK JONES WAY  
 BUTTE (SILVER BOW), MT 59750 USA  
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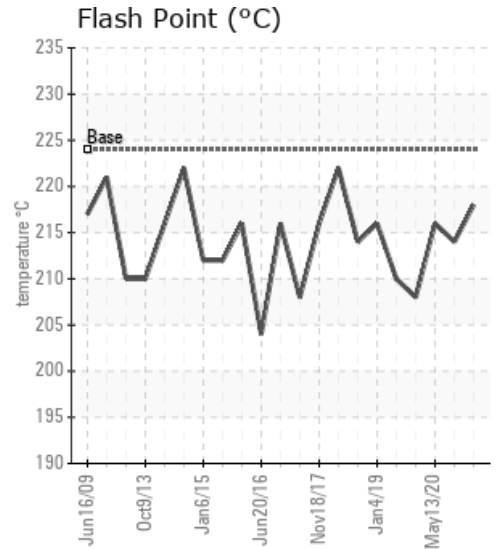
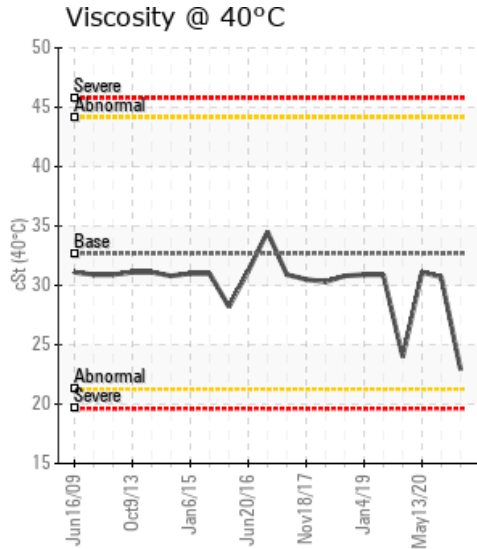
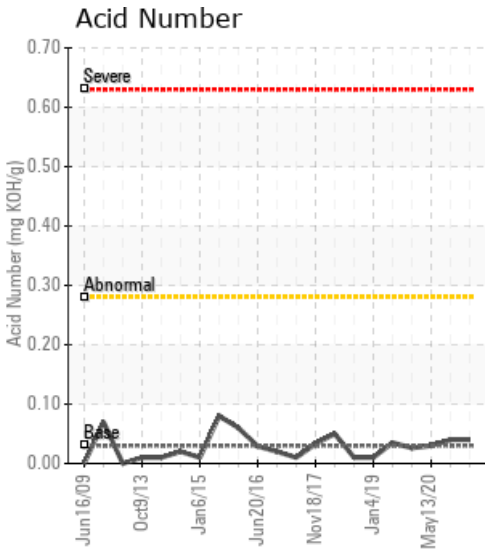
**System Information**  
 System Volume: 41640 gal  
 Bulk Operating Temp: 425F / 218C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA CALFLO AF  
 Make: EXOTHERM

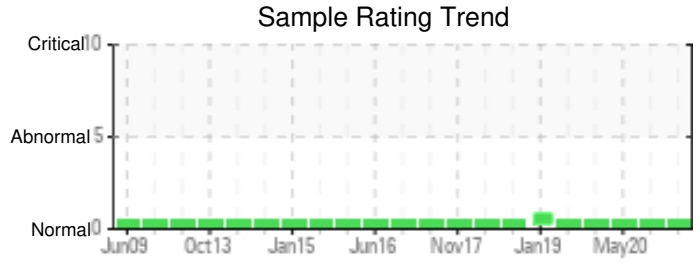
**Sample Information**  
 Lab No: 02413748  
 Analyst: Ron LeBlanc  
 Sample Date: 03/25/21  
 Received Date: 04/07/21  
 Completed: 04/12/21  
 Ron LeBlanc  
 Ronald.LeBlancSr@hollyfrontier.com

Recommendation: Sample appears normal. Sample at 6 months.

Comments:

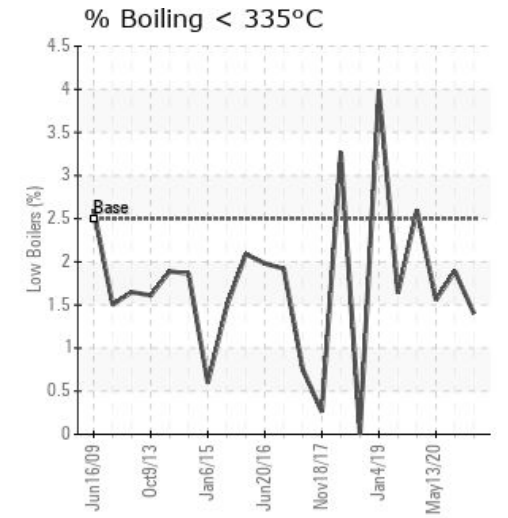
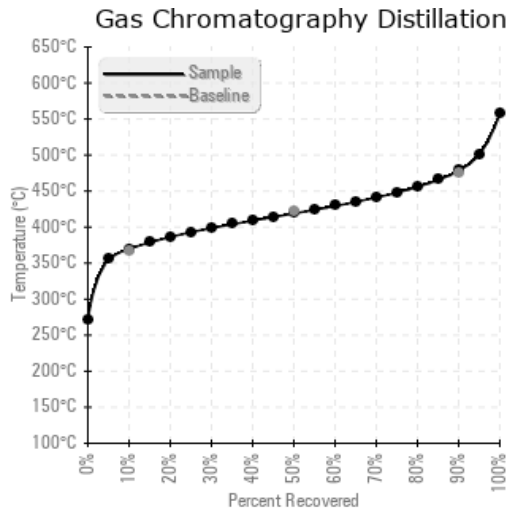
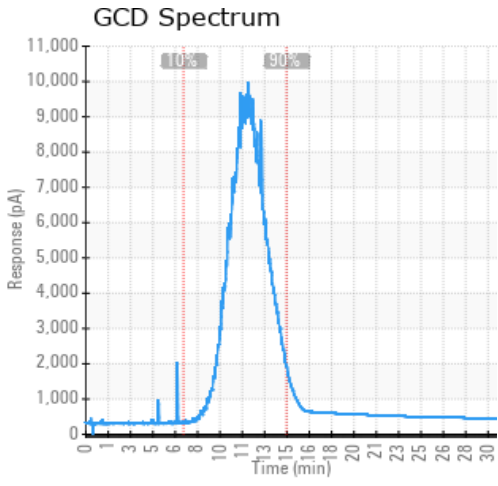
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/25/21	04/07/21	16.0y		424 / 218	5.2	22.9	0.04	0.141	697 / 369	786 / 419	893 / 478	1.40
09/26/20	10/07/20	15.0y	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	0.0y	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	0.0y	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	0.0y		410 / 210	11.1	30.9	0.035	0.084	691 / 366	789 / 421	884 / 473	1.64
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
03/25/21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
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
<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	
09/26/20	Sample appears normal. All product typicals are within acceptable limits. Re-sample in 6 months.
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.

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