

# B80 GROEN

**Customer: PTRHTF10078**  
 WEST FORK CREATIONS  
 15 PEPSI DRIVE  
 RED LODGE, MT 59068 USA  
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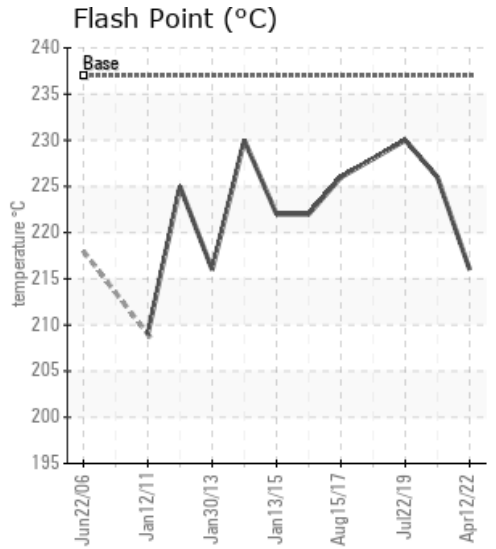
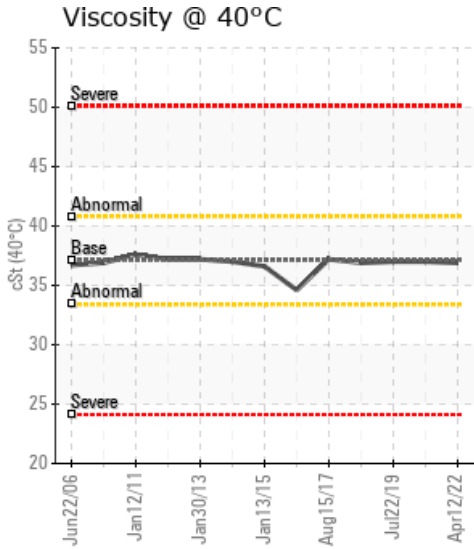
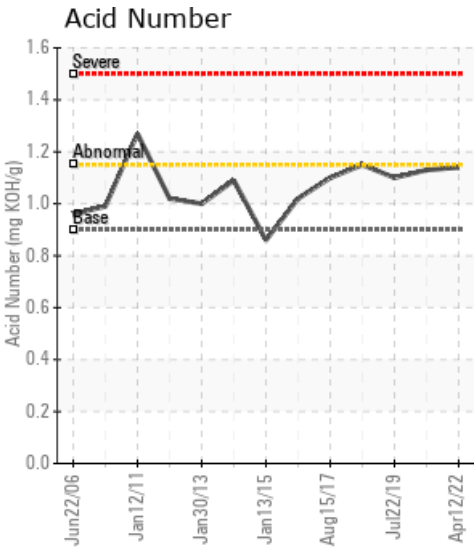
**System Information**  
 System Volume: 25 gal  
 Bulk Operating Temp: 450F / 232C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID  
 Make: STERLCO

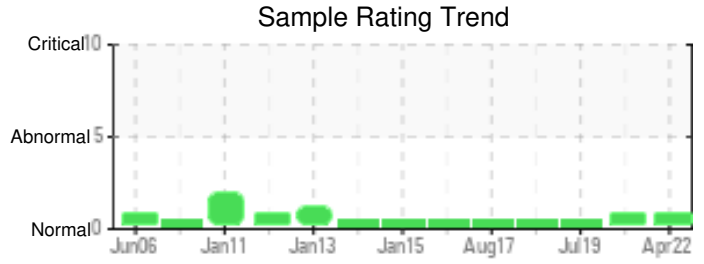
**Sample Information**  
 Lab No: 02503191  
 Analyst: Ron LeBlanc  
 Sample Date: 04/12/22  
 Received Date: 08/03/22  
 Completed: 08/04/22  
 Ron LeBlanc  
 Ronald.LeBlancSr@hollyfrontier.com

Recommendation: Resample at normal interval.

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

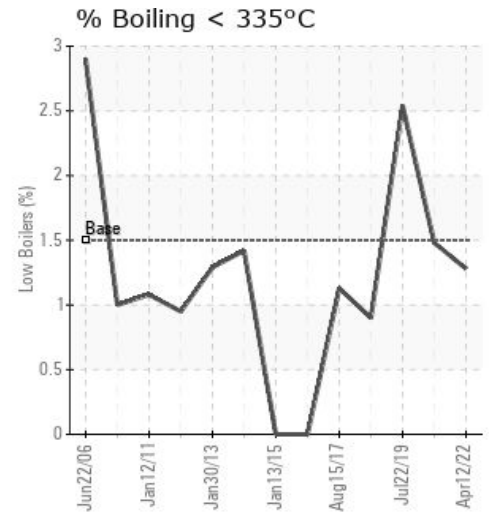
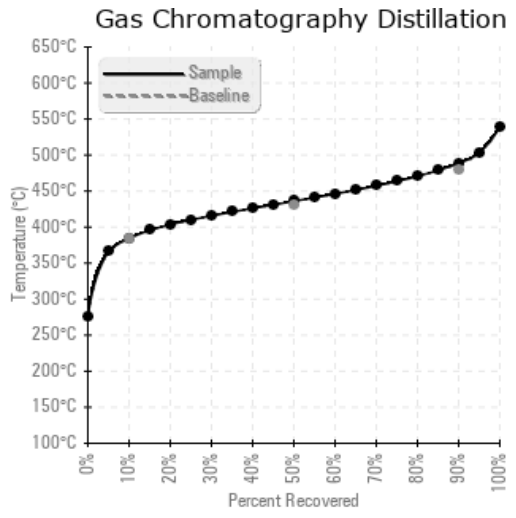
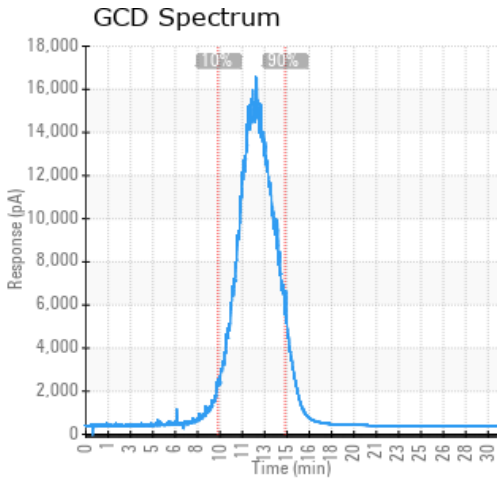
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/12/22	08/03/22	1.0y	drain plug	421 / 216	20.0	36.9	1.14	0.176	724 / 384	817 / 436	911 / 489	1.28
10/29/20	11/11/20	0.0y	Drain	439 / 226	18.5	37.0	1.13	0.064	721 / 383	816 / 436	911 / 488	1.48
07/22/19	08/01/19	0.0y	DRAIN PLUG	446 / 230	10.9	37.0	1.10	0.048	701 / 372	802 / 428	902 / 484	2.54
06/28/18	07/23/18	5.0y	OIL DRAIN	442 / 228	10.3	36.9	1.15	0.034	717 / 380	811 / 433	908 / 487	0.90
08/15/17	08/25/17	13.5y		439 / 226	20.5	37.2	1.10	0.037	717 / 381	813 / 434	906 / 486	1.13
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





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
04/12/22	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	88	0
10/29/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	0
07/22/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	0
06/28/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	0
08/15/17	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	89	0
Baseline Data			0	0						0			0	0				0	0				230	

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



Historical Comments	
10/29/20	Sample appears normal. (GCD) 90% distillation point is slightly high. Re-Sample in 3 months. (GCD) 90% Distillation Point is marginally high.
07/22/19	Sample appears normal. Re-sample in normal cycle.
06/28/18	Sample appears normal. Continue current sample interval.
08/15/17	Sample appears normal. Resample in 3 months.

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