

## RF03 MANIFOLD & SPIN BOILER #1

**Customer: PTRHTF10057**  
 PROPEX RINGGOLD PLANT  
 428 ROLLINS INDUSTRIAL BLVD  
 RINGGOLD, GA 30736 USA  
 Attn: STEWART DOMAINGUE  
 Tel: (423)553-3843  
 E-Mail: stewart.domaingue@propexglobal.com

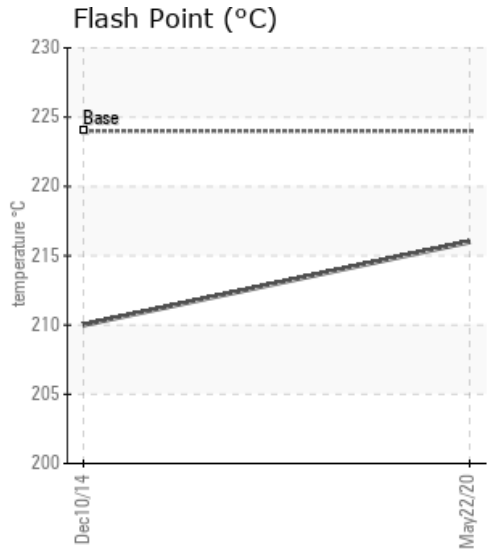
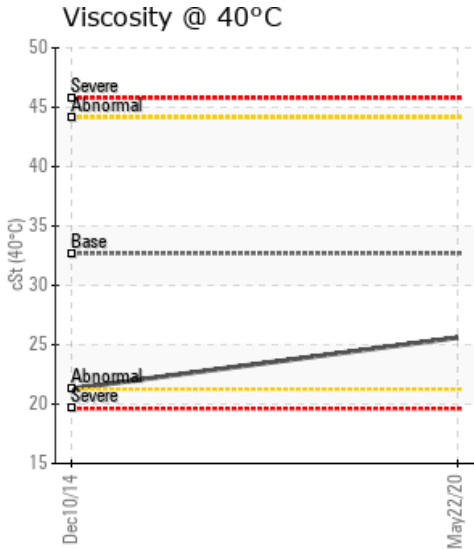
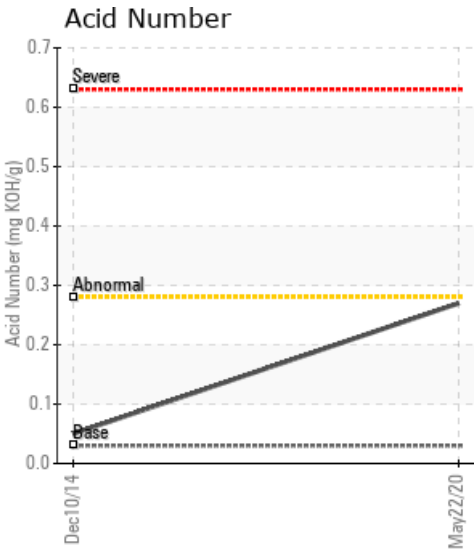
**System Information**  
 System Volume: 30 gal  
 Bulk Operating Temp: 400F / 204C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA CALFLO AF  
 Make:

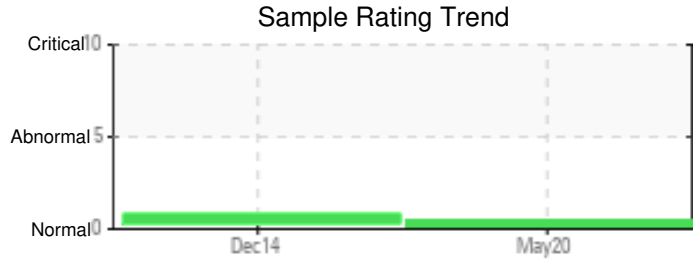
**Sample Information**  
 Lab No: 02358525  
 Analyst: Jake Finn  
 Sample Date: 05/22/20  
 Received Date: 06/09/20  
 Completed: 06/23/20  
 Jake Finn  
 jake.finn@petrocanadalsp.com

Recommendation: Fluid is suitable for continued use, please resubmit in one year

Comments: Light sand/dirt noted by lab.

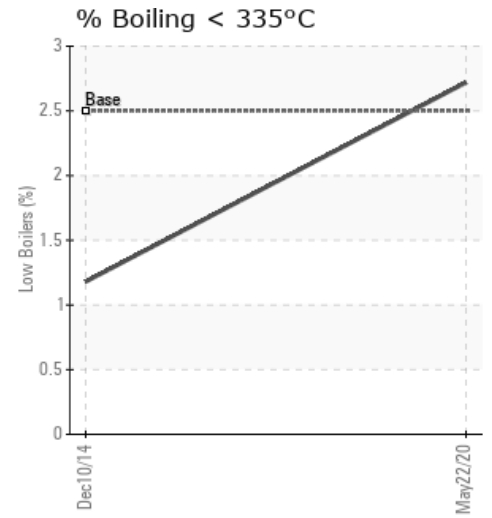
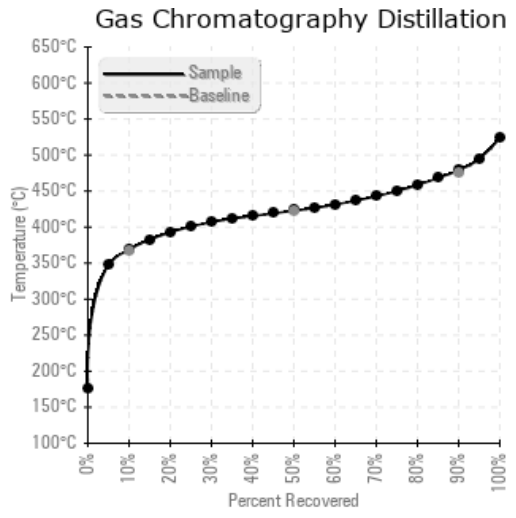
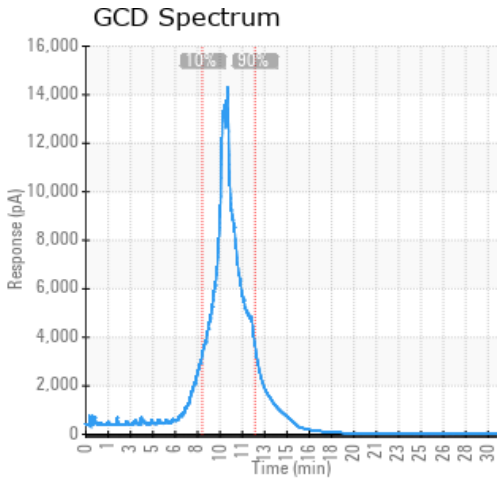
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/22/20	06/09/20	0h		421 / 216	123.1	25.6	0.27	0.188	696 / 369	793 / 423	894 / 479	2.72
12/10/14	01/07/15	0h		410 / 210	82.0	21.3	0.05	0.079	728 / 387	809 / 432	902 / 484	1.18
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
05/22/20	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0
12/10/14	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	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	
12/10/14	Please include age of the Calflo in the heat transfer system in futre samples for quality interpretations. Wear metals are very low. Water is very low. Total Acid Number is LOW. The oils viscosity has dropped an ISO grade and we need to monitor. The Pentane solids are low. (GCD) 10% Distillation Point is marginally high. Please re-sample and submit during next scheduled interval (GCD) 10% Distillation Point is marginally high.

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