

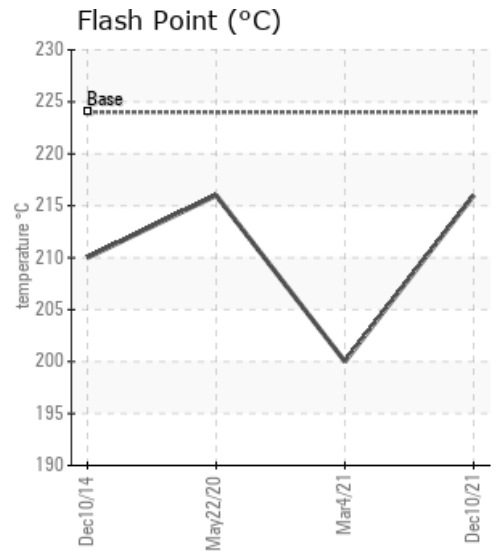
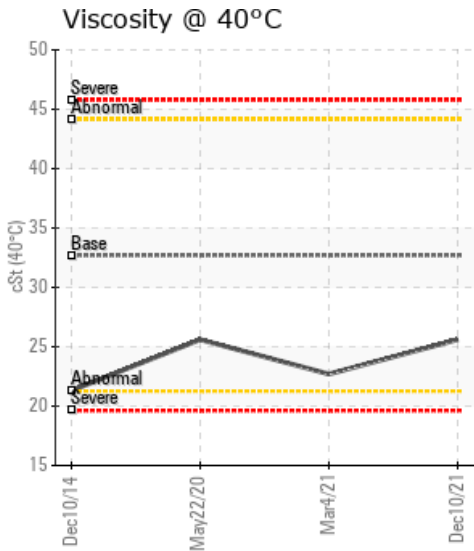
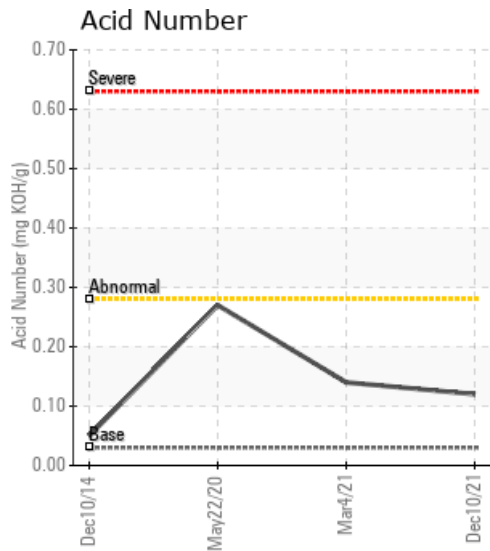
## RF03 MANIFOLD & SPIN BOILER #1

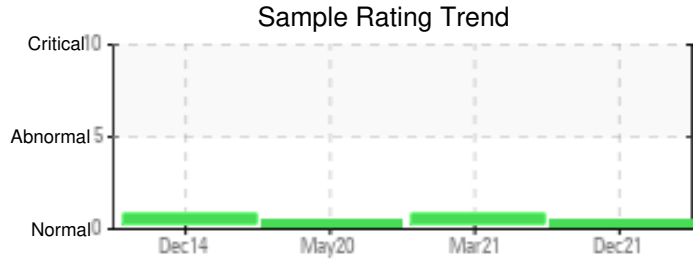
Customer: PTRHTF10057	System Information	Sample Information
PROPEX RINGGOLD PLANT 428 ROLLINS INDUSTRIAL BLVD RINGGOLD, GA 30736 USA Attn: STEWART DOMAINGUE Tel: (423)553-3843 E-Mail: stewart.domaingue@propexglobal.com	System Volume: 30 gal Bulk Operating Temp: 400F / 204C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02463459 Analyst: Jake Finn Sample Date: 12/10/21 Received Date: 12/21/21 Completed: 12/28/21 Jake Finn jake.finn@hollyfrontier.com

Recommendation: Sample indicates no signs of wear, contamination or fluid degradation. Notably, water contamination levels have significantly improved over the last few samples. This fluid is suitable for continued use, please resample and submit for testing in 12 months.

Comments: Very lite debris was noted by lab.

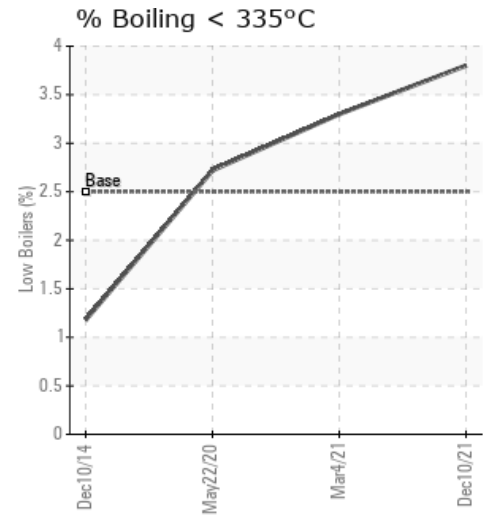
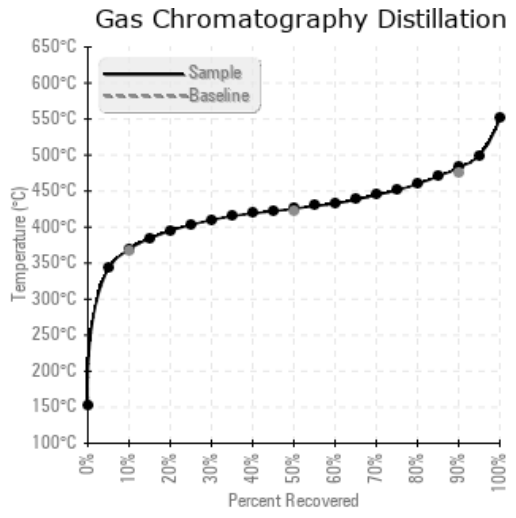
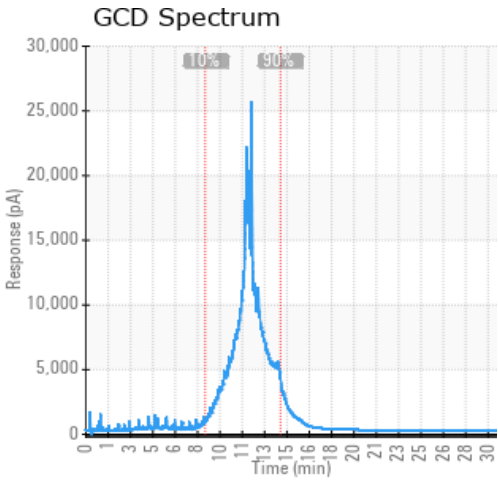
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/10/21	12/21/21	0.0h		421 / 216	2.9	25.6	0.12	0.087	697 / 369	798 / 426	900 / 482	3.80
03/04/21	03/16/21	0.0h		392 / 200	39.5	22.7	0.14	0.073	696 / 369	796 / 424	910 / 488	3.30
05/22/20	06/09/20	0.0h		421 / 216	123.1	25.6	0.27	0.188	696 / 369	793 / 423	894 / 479	2.72
12/10/14	01/07/15	0.0h		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	
12/10/21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0
03/04/21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
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	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	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

03/04/21	Lab indicated very light traces of white metal and debris and the GCD 90% distillation point is marginally high, but otherwise the results indicate the fluid is suitable for continued use. Please resubmit a new sample for testing in one year.(GCD) 90% Distillation Point is marginally high.
05/22/20	Fluid is suitable for continued use, please resubmit in one year Light sand/dirt noted by lab.
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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