

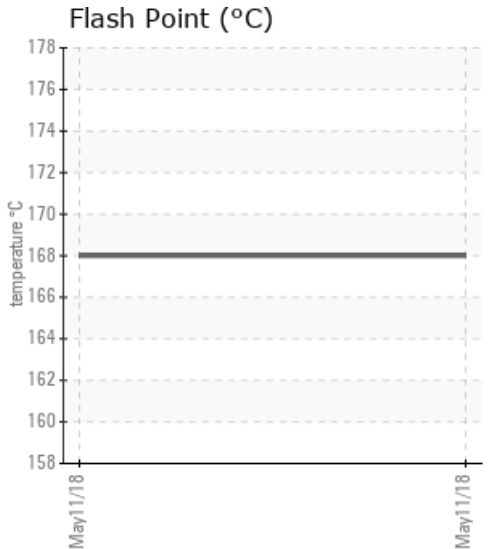
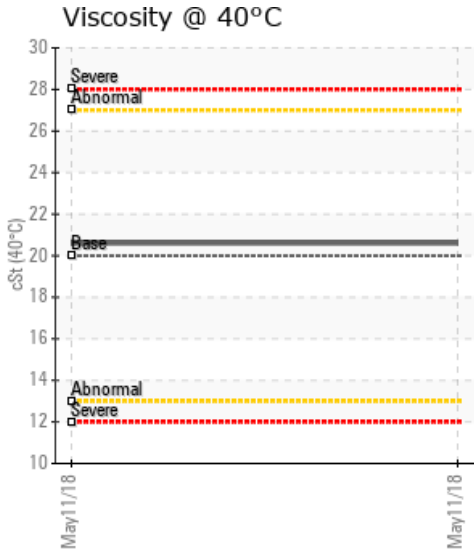
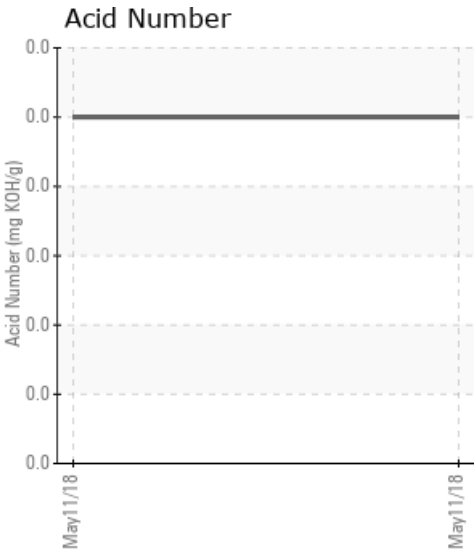
**180511-4**

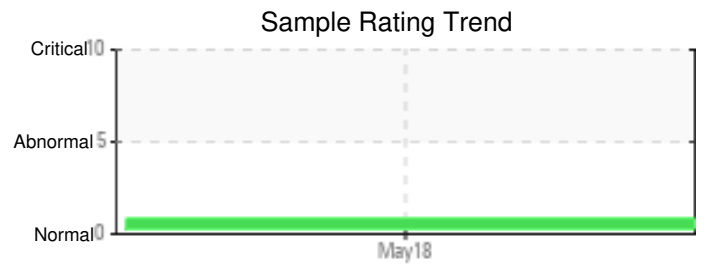
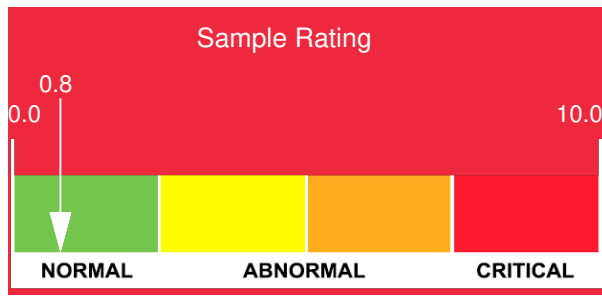
Customer: PTRHTF30113	System Information	Sample Information
WOODLAND BIOFUELS 1086 MODELAND RD SARNIA, ON N7S 6L2 Canada Attn: Jim Power Tel: (519)337-5398 E-Mail: jpower@woodlandbiofuels.com	System Volume: 10 ltr Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: PENRECO DRAKEOL 10 Make: CCI THERMAL TECH	Lab No: 02216277 Analyst: Lynn Billings Sample Date: 05/11/18 Received Date: 05/15/18 Completed: 05/23/18 To discuss this report contact Lynn Billings at (289)523-0262

Recommendation: Please confirm what the safe lower flash point operating level is for this fluid. You may want to vent the thermal fluid system to release any light ends in the fluid. Resample at the next service interval to monitor. This fluid is not Petro-Canada's and was run for contamination purposes with our fluid. Will need to do further comparison.

Comments: All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the fluid. The AN level is acceptable for this fluid. The COC Flash Point is low for the Drakeol 10 product, but not for the Drakeol 10B. If you could confirm which product this is (there is no Drakeol LT 10 that we are aware of). There does appear to be some lower flash point products present in the fluid, and these do not look like degradation products, but more likely some type of foreign fluid.

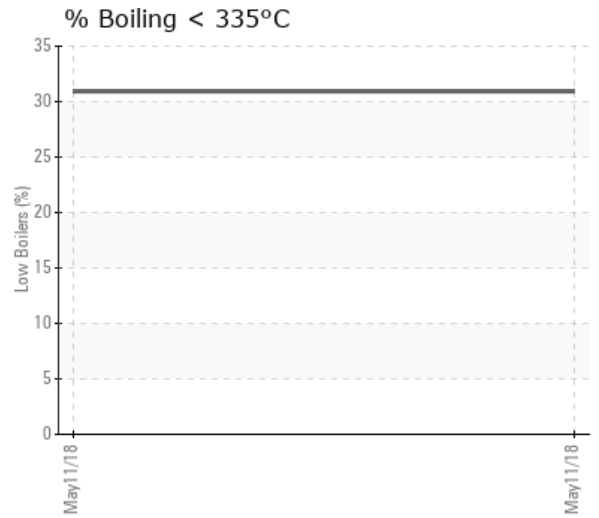
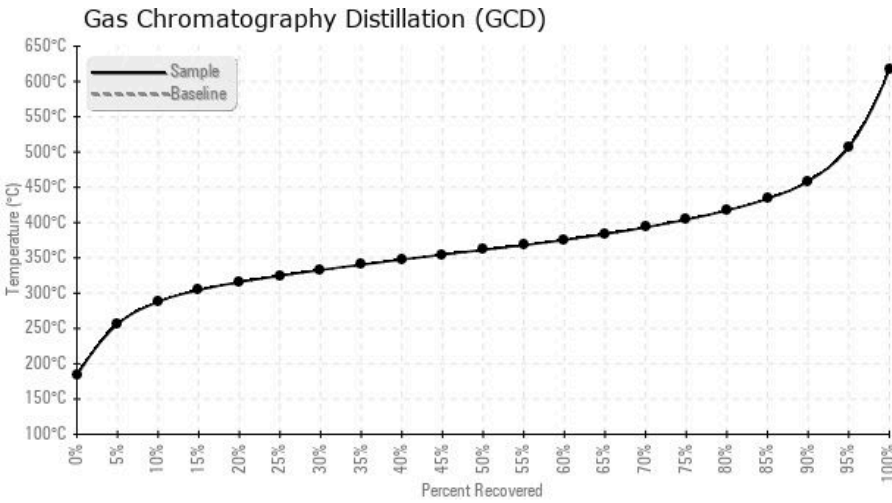
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/11/18	05/15/18	0d		334 / 168	81.9	20.6	0.025	0.012	550 / 288	682 / 361	857 / 459	30.93
Baseline Data				414 / 212		20.0						





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	
05/11/18	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0		

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



### Historical Comments


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