

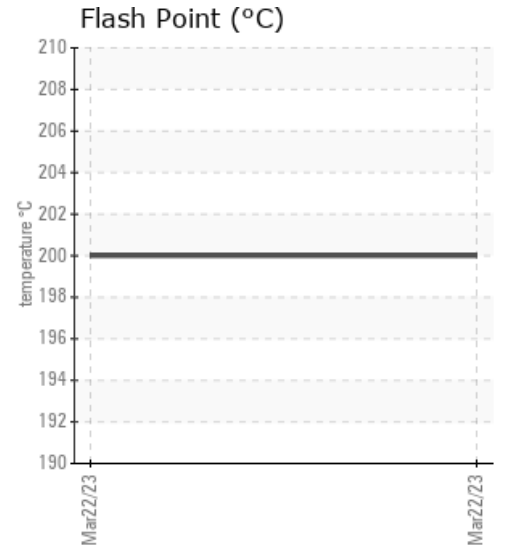
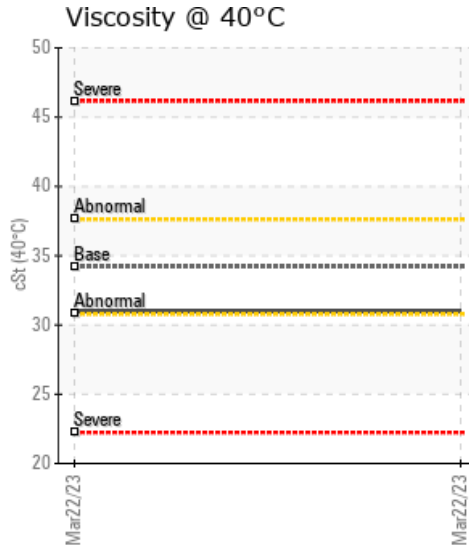
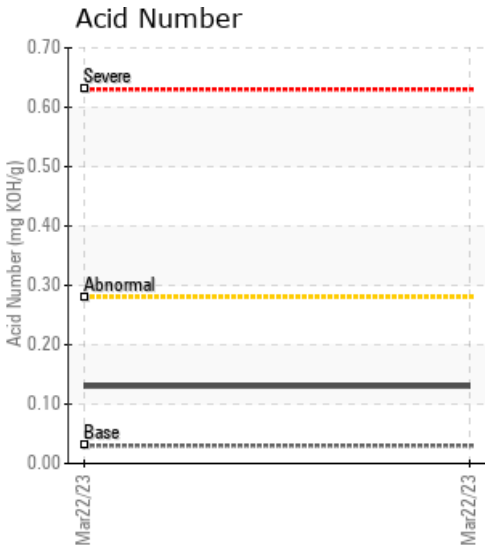
SECONDARY PUMP

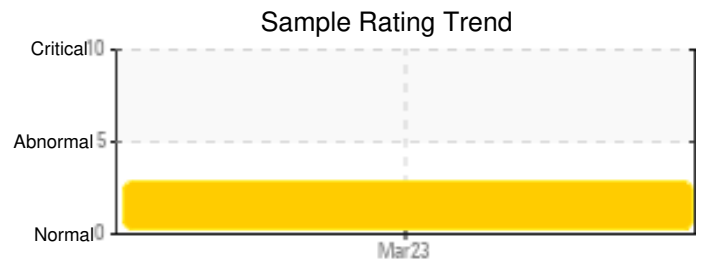
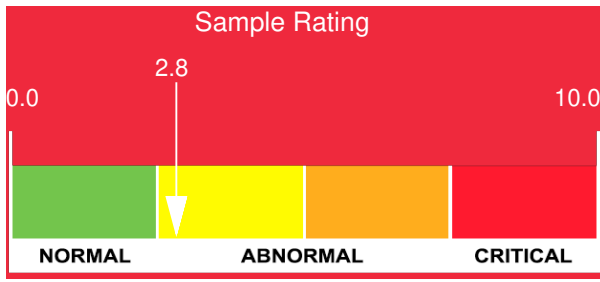
Customer: PTRHTF20102	System Information	Sample Information
SAVONA SPECIALTY PLYWOOD 7273 KAMLOOPS LAKE DRIVE SAVONA, BC V0K 2J0 CANADA Attn: RANDY REIMER Tel: (250)373-5603 E-Mail: randallreimer@apgroup.ca	System Volume: 0 gal Bulk Operating Temp: 550F / 288C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: SIGMA	Lab No: 02548456 Analyst: Ray Rolston Sample Date: 03/22/23 Received Date: 03/29/23 Completed: 04/04/23 Ray Rolston Ray.Rolston@HFSinclair.com

Recommendation: Water content, Acid Number (AN), viscosity, Cleveland Open Cup (COC) Flash Point and Pentane insolubles (solids content) are good. Gas Chromatography Distillation (GCD) results indicate the presence of low boilers. These light ends should be vented to atmosphere if this can be done safely. The fluid is suitable for further service. Resample at the next service interval to monitor.

Comments: (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.

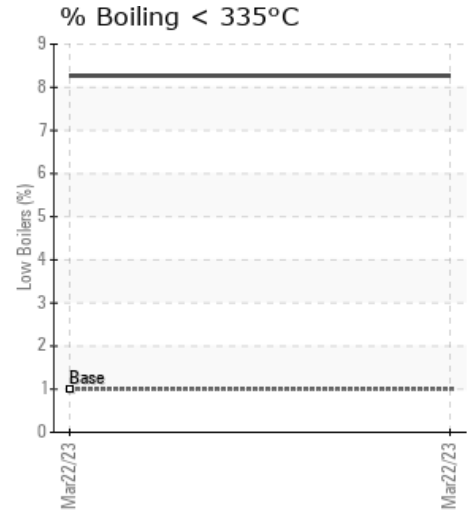
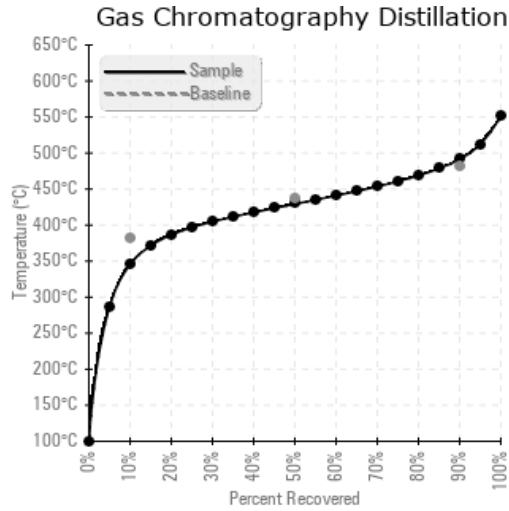
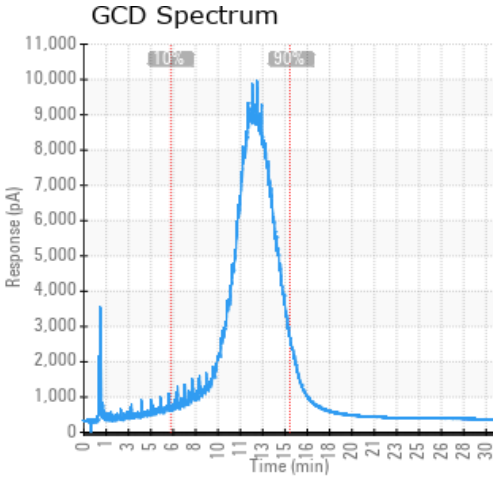
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/22/23	03/29/23	5.0y		392 / 200	22.5	31.0	0.13	0.288	654 / 346	805 / 429	916 / 491	8.27
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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	
03/22/23	15	0	0	0	0	0	0	0	0	0	0	0	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

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.