

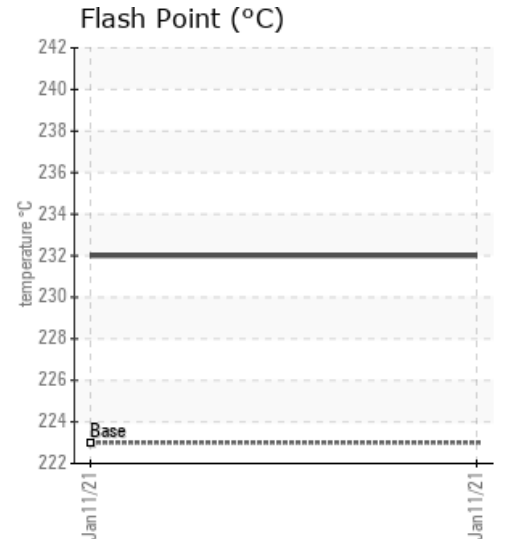
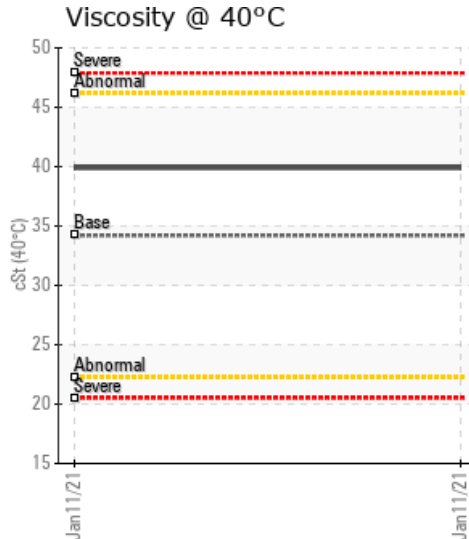
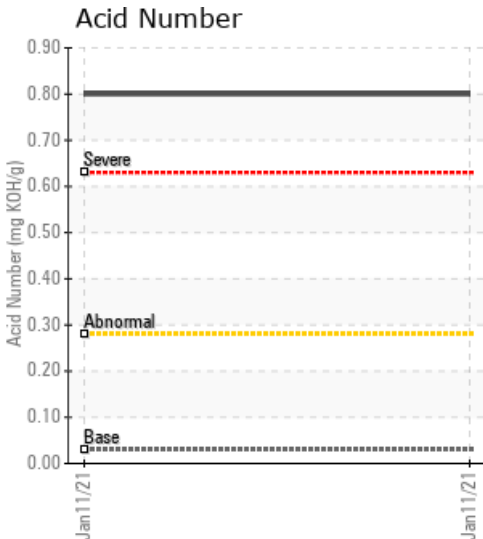
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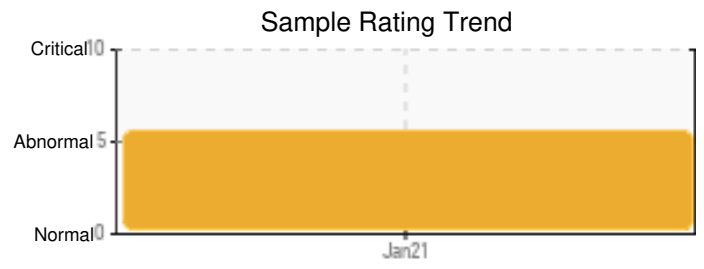
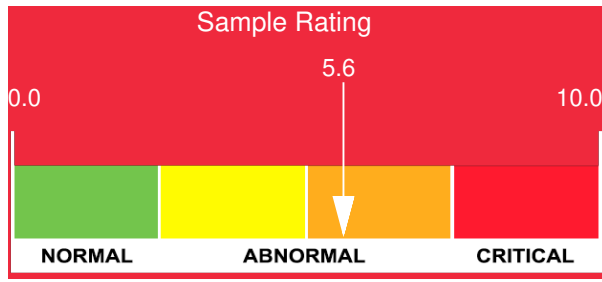
Customer: PTRHTF20179	System Information	Sample Information
Canfor - Polar 36654 Hart Highway General Delivery Bear Lake, BC V0J 3G0 Canada Attn: Kevin Meise Tel: (250)552-5028 E-Mail: kevin.meise@canfor.com	System Volume: 0 ltr Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02398419 Analyst: Ray Rolston Sample Date: 01/11/21 Received Date: 01/19/21 Completed: 01/20/21 Ray Rolston Ray.Rolston@petrocanadalsp.com

Recommendation: This January 11, 2021 sample appears to be similar to the last sample dated November 19, 2020. The Acid Number (AN) is 0.80 mg KOH/g which is essentially unchanged since the last sample which was 0.89 mg KOH/g. The Pentane Insolubles (solids) content has increased from 1.85% on the previous sample to 2.46%. Both test results are beyond condemning guidelines. All other test results are normal and typical for the age of this fluid.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is marginally high.

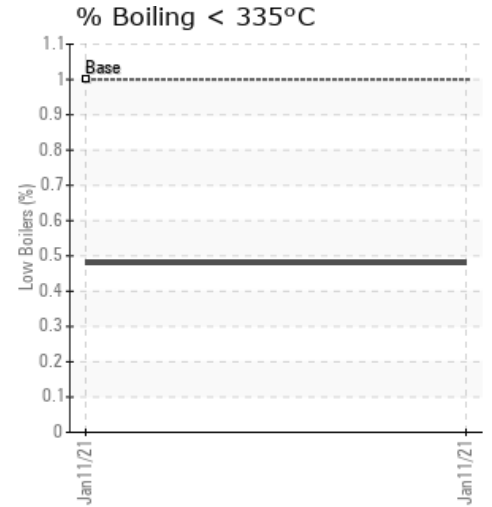
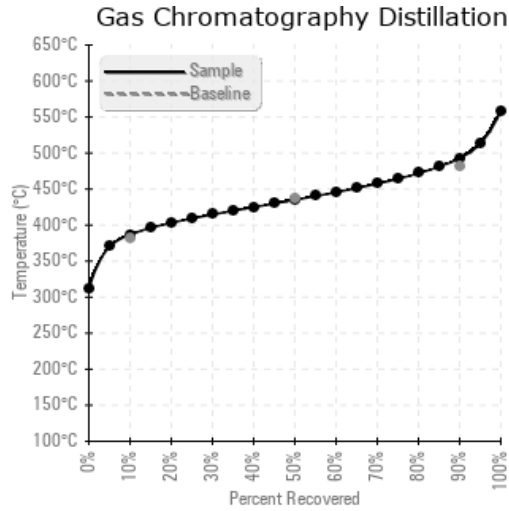
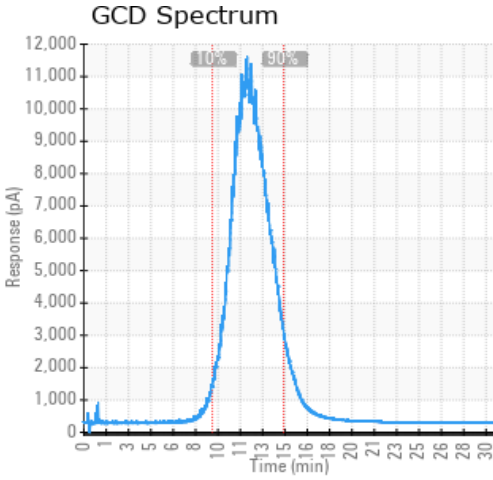
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/11/21	01/19/21	0y		450 / 232	83.3	39.9	0.80	2.46	728 / 387	815 / 435	919 / 493	0.48
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
01/11/21	69	0	0	0	0	0	0	0	0	0	2	13	0	0	0	0	2	0	0	0	24	0	3	6
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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