

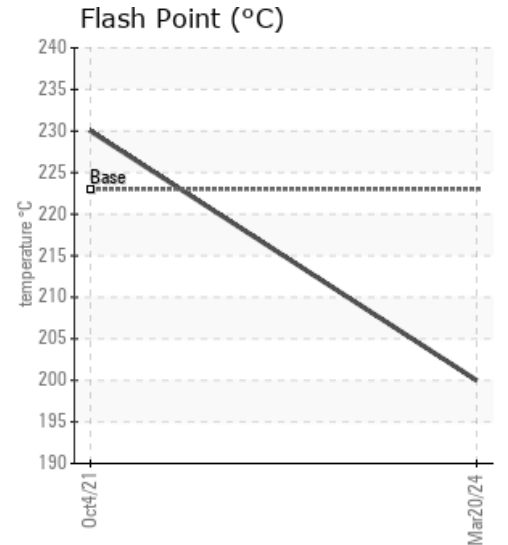
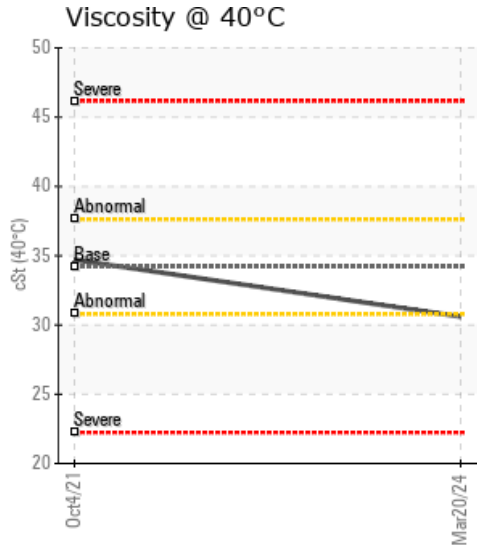
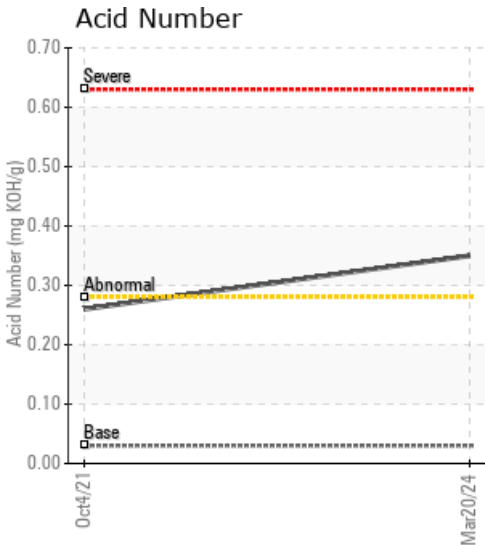
[2-25-38-9W5] Z-2010

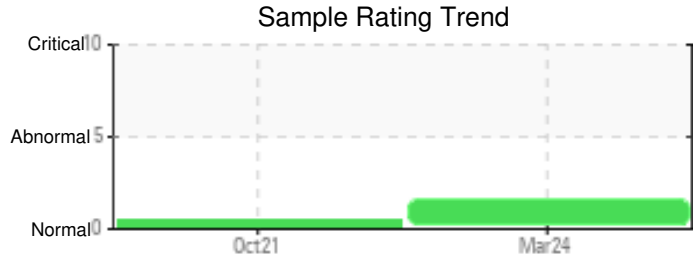
Customer: PTRHTF20192	System Information	Sample Information
Petrus Resources Corp 2400, 240 – 4th Avenue S.W. 02-25-38-9W5 Rocky Mountain House Calgary, AB T2P 4H4 CA Attn: Jamin Severson Tel: (403)844-0600 E-Mail: jseverson@petrusresources.com	System Volume: 9500 ltr Bulk Operating Temp: 356F / 180C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: ALCO	Lab No: 02626501 Analyst: Lyle Dach Sample Date: 03/20/24 Received Date: 04/03/24 Completed: 04/11/24 Lyle Dach lyle.dach@HFSinclair.com

Recommendation: Fluid condition is good overall, viscosity has dropped slightly. Higher pressure blanket gas can become entrained in the fluid and reduce the viscosity. The heater should be vented if possible to remove the light ends. Venting should be done in short periods of time to ensure oxygen doesn't enter the expansion tank and allow the fluid to oxidize. Venting is slow process and can take several weeks of daily venting to remove all the light ends. Resample in 6 months after a venting cycle has been completed.

Comments: Visc @ 40°C is abnormally low.

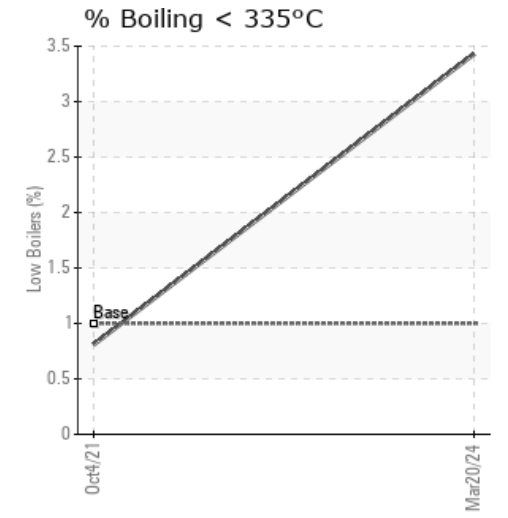
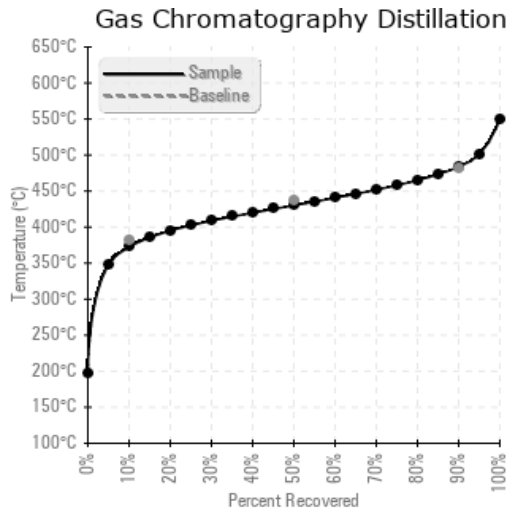
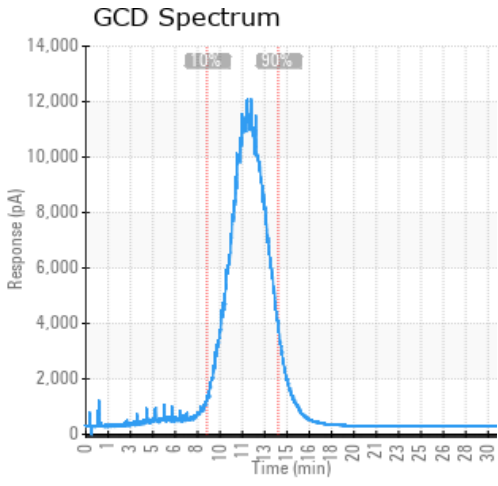
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/20/24	04/03/24	48.0m		392 / 200	19	30.6	0.35	0.240	702 / 372	806 / 430	903 / 484	3.43
10/04/21	10/15/21	36.0m	SITE GLASS	446 / 230	29.5	34.7	0.26	0.163	720 / 382	813 / 434	904 / 484	0.81
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
03/20/24	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/04/21	2	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

10/04/21	This sample appears to be in good condition. Very low water, viscosity is in spec, flash point is high, GCD is good, and pentane insolubles are low. Resample in 6 months.

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