

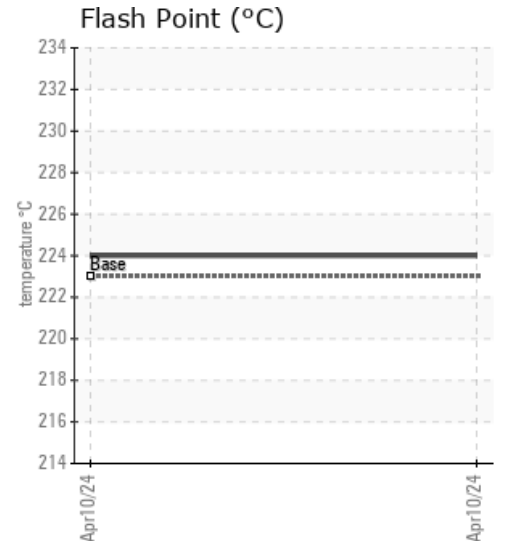
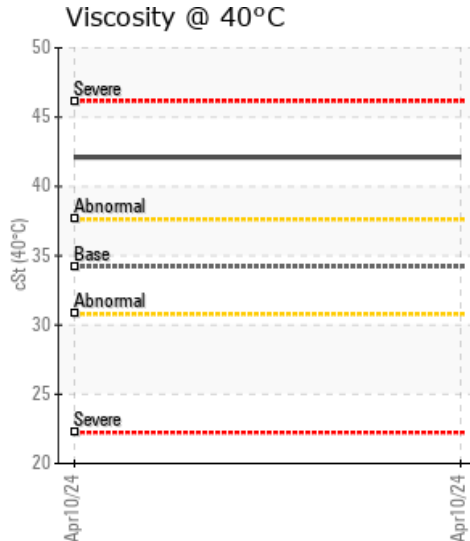
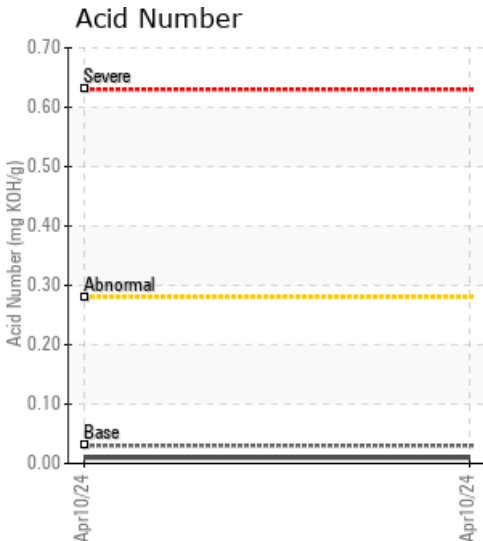
[8-20-74-16W5] PLAINS MIDSTREAM

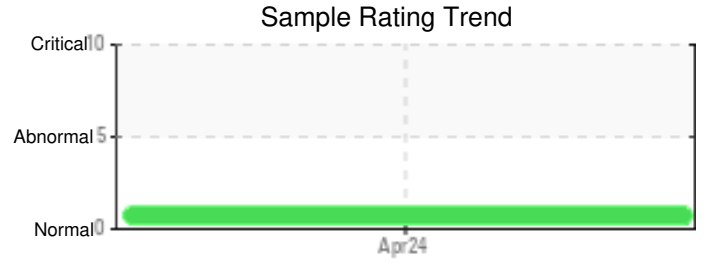
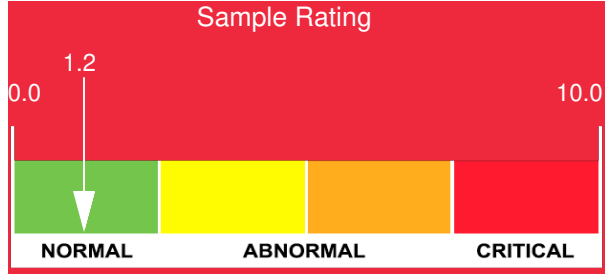
Customer: PTRHTF60076	System Information	Sample Information
Plains Midstream Canada 8-20-74-16W5 PO Box 240 High Prairie, AB T0G 1E0 CA Attn: Shawn Rich Tel: (780)536-7371 E-Mail: srich@plains.com	System Volume: 8000 ltr Bulk Operating Temp: 392F / 200C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: ADVANTAGE ENGINEERIN	Lab No: 02629812 Analyst: Clinton Buhler Sample Date: 04/10/24 Received Date: 04/17/24 Completed: 04/25/24 Clinton Buhler Clinton.Buhler@HFSinclair.com

Recommendation: For ~19 years of service, the fluid looks very good and remains in suitable condition for continued service. Fluid viscosity and 10% GCD temperature are both elevated, yet the other parameters don't suggest any concerning indications of fluid degradation. Please re-sample in 12 months.

Comments:

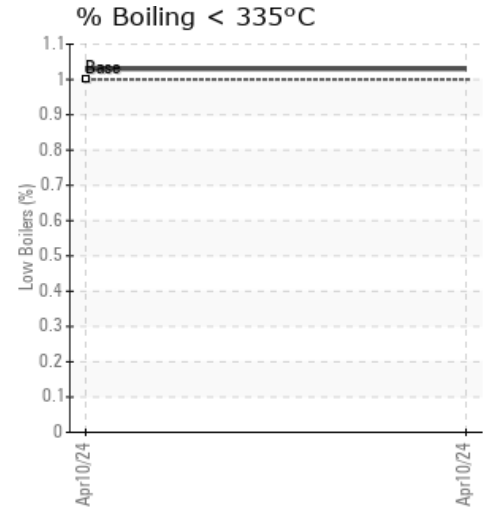
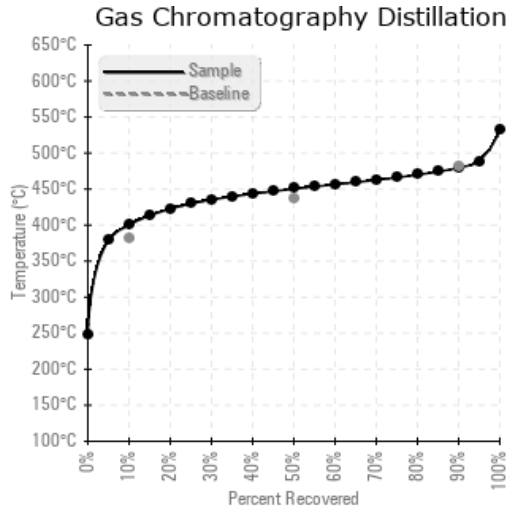
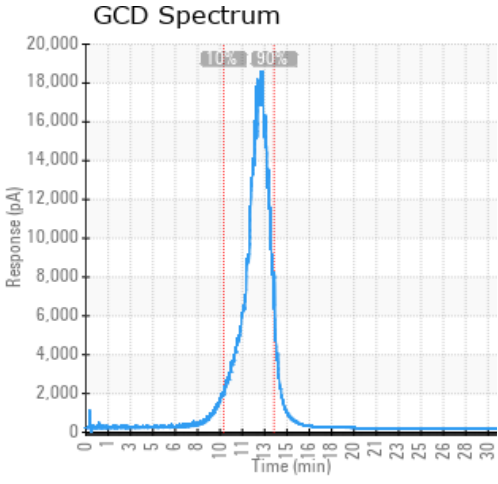
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/10/24	04/17/24	19.0y	pump drain	435 / 224	11	42.1	0.01	0.029	753 / 400	843 / 450	895 / 480	1.03
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
04/10/24	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

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