

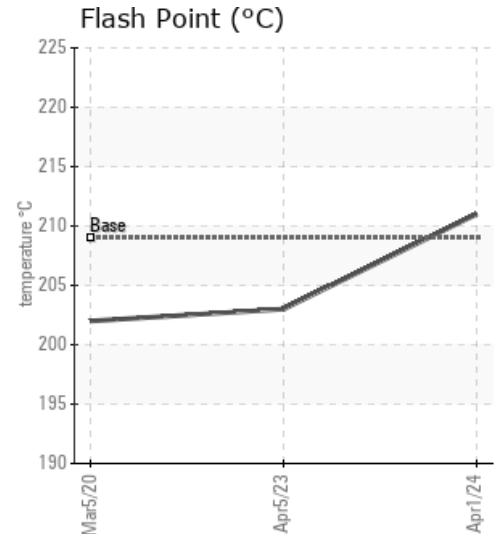
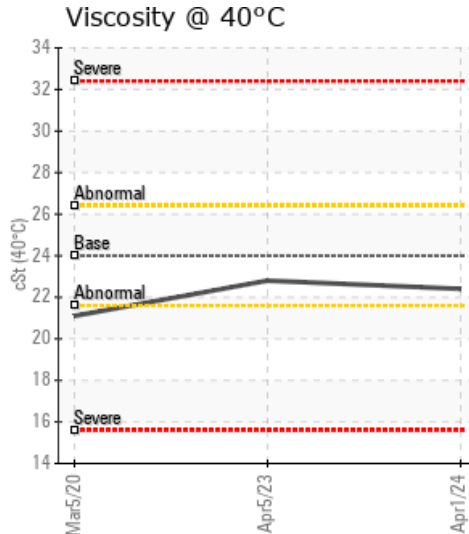
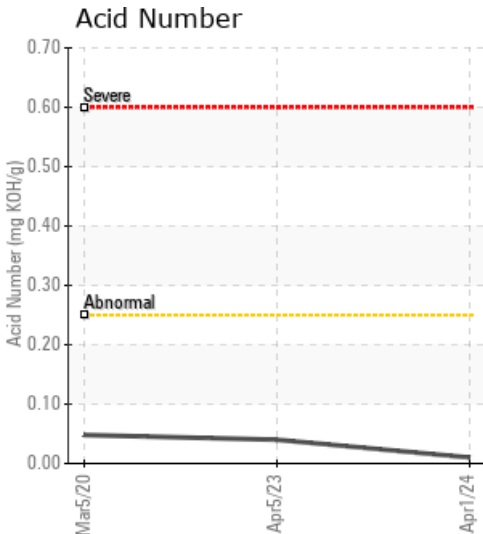
H-8200 C-TRAIN

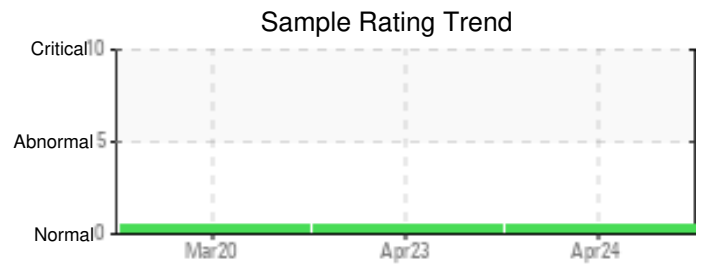
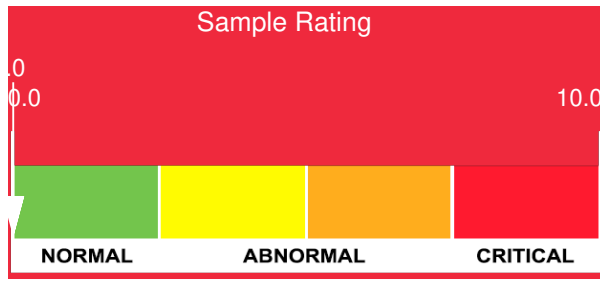
Customer: PTRHTF60070	System Information	Sample Information
Pembina Gas Services 04-25-062-06W6 Grande Prairie, AB T8W 0M1 CA Attn: Mike Janz Tel: (587)298-9421 E-Mail: mjanz@pembina.com	System Volume: 1287 gal Bulk Operating Temp: 460F / 238C Heating Source: Blanket: Fluid: CHEVRON HEAT TRANSFER OIL 22 Make:	Lab No: 02627544 Analyst: Clinton Buhler Sample Date: 04/01/24 Received Date: 04/08/24 Completed: 04/16/24 Clinton Buhler Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 months.

Comments:

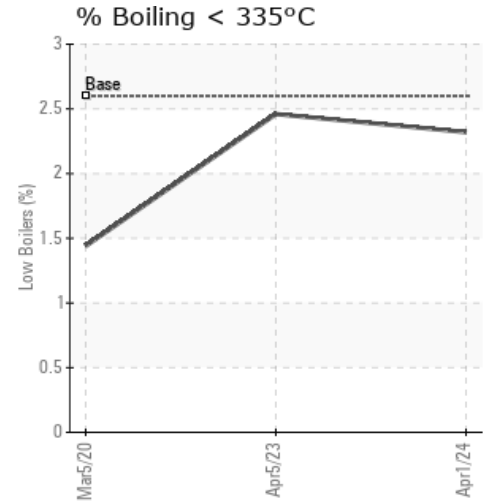
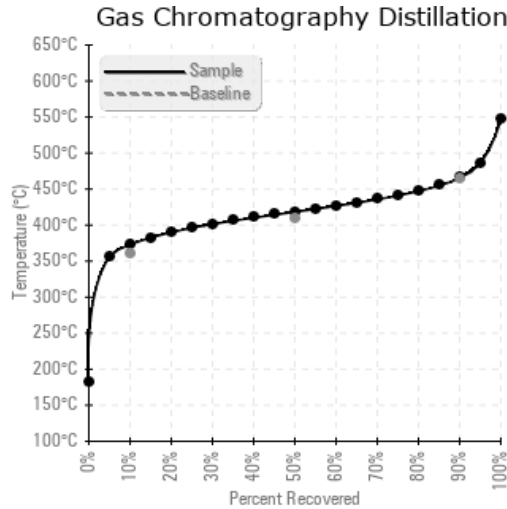
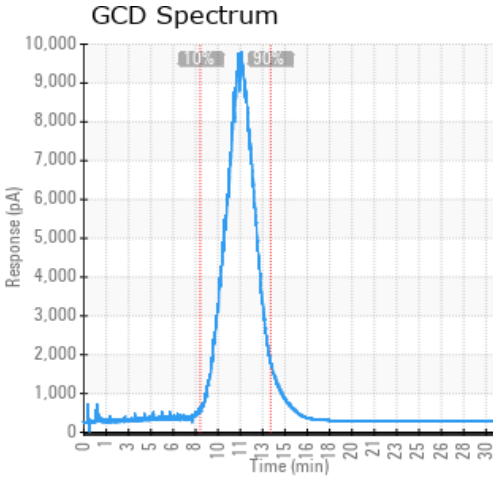
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/01/24	04/08/24	9.0y	OFF OF PUMP	412 / 211	1	22.4	0.01	0.021	703 / 373	785 / 418	870 / 465	2.32
04/05/23	05/03/23	9.0y	Return from reboiler	397 / 203	8.9	22.8	0.04	0.062	698 / 370	784 / 418	866 / 463	2.46
03/05/20	03/16/20	0.0y	OFF OF PUMP	396 / 202	1.4	21.1	0.048	0.052	695 / 368	765 / 407	873 / 467	1.44
Baseline Data				408 / 209		24			680 / 360	768 / 409	867 / 464	2.6





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
04/01/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/05/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/05/20	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

04/05/23	The fluid is in good condition and suitable for further use. Please re-sample in 6 months.
03/05/20	The fluid is in good condition and suitable for further use. Please re-sample in 6 months.

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