

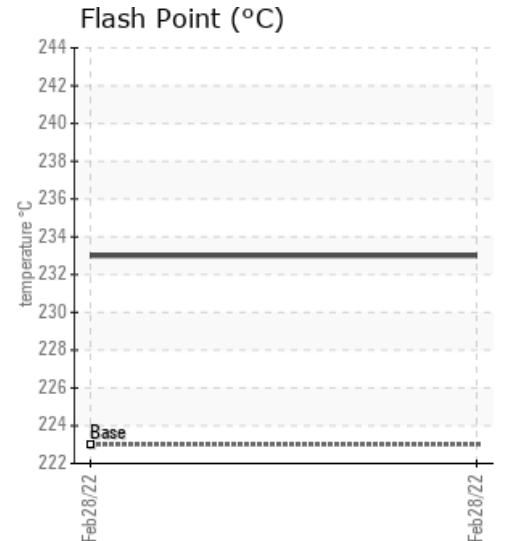
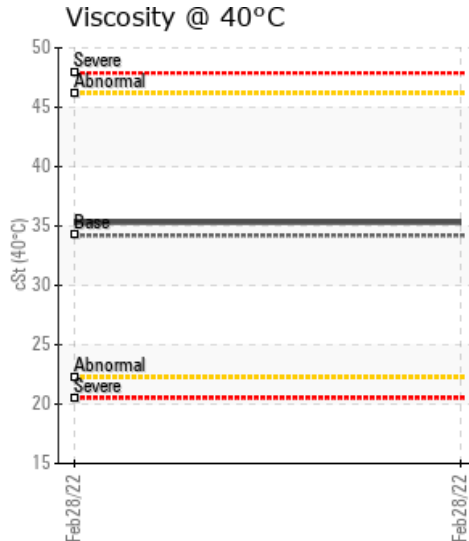
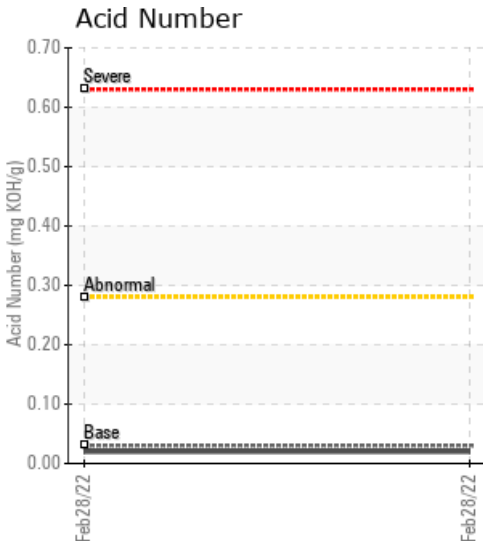
[15-24-61-19-W5] CHEVRON WHITECOURT

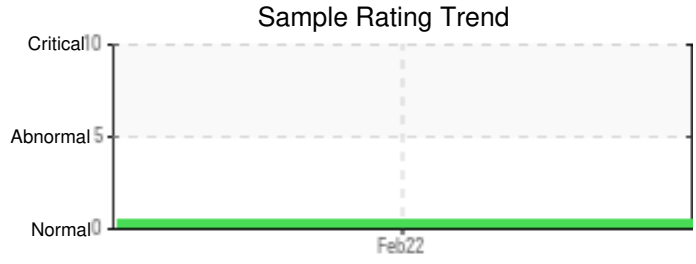
Customer: PTRHTF20175	System Information	Sample Information
QUADRA CHEMICALS 7802 98 STREET CLAIRMONT, AB T0H 0W0 Canada Attn: Quadra Samples Tel: E-Mail: quadra_samples@quadra.ca	System Volume: 9230 ltr Bulk Operating Temp: 248F / 120C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02475744 Analyst: Clinton Buhler Sample Date: 02/28/22 Received Date: 03/07/22 Completed: 03/09/22 Clinton Buhler Clinton.Buhler@hollyfrontier.com

Recommendation: This is the first sample from a new system after start-up. Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 3 months.

Comments:

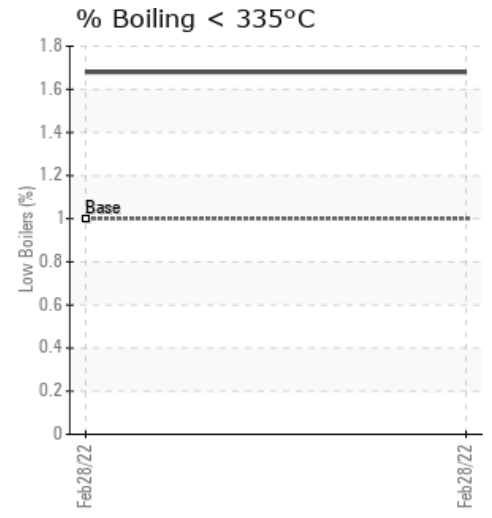
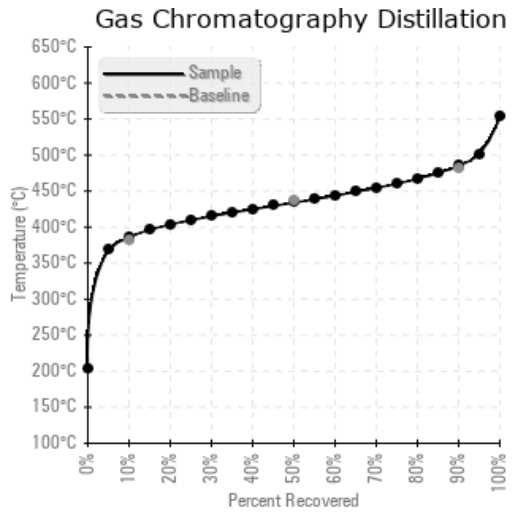
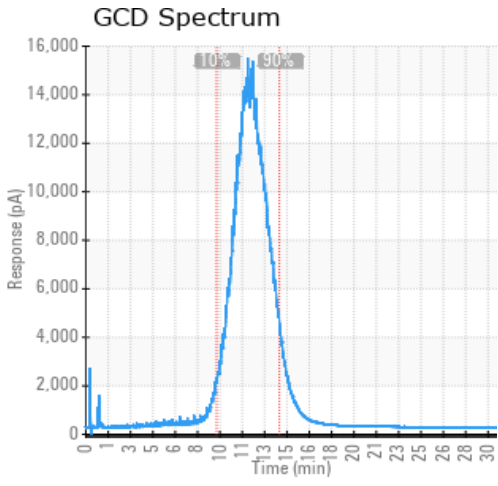
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/28/22	03/07/22	1.0w	LINE HEATER	451 / 233	23.7	35.3	0.02	0.020	726 / 386	813 / 434	905 / 485	1.68
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
02/28/22	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	2
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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