

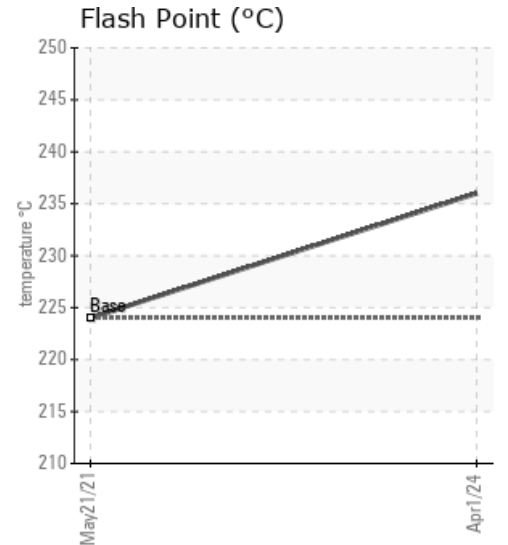
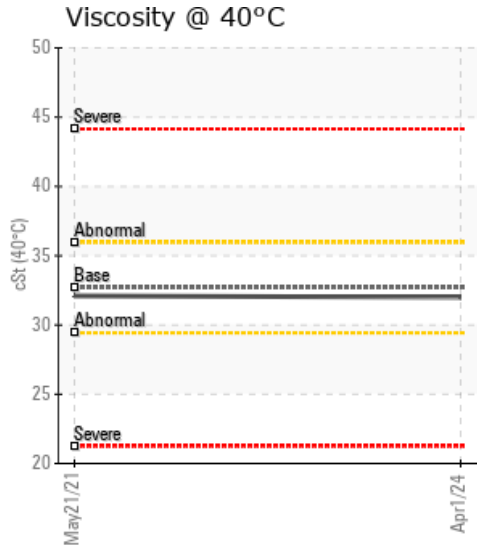
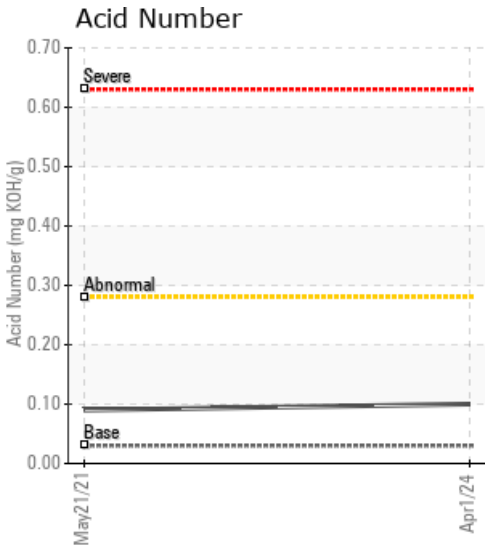
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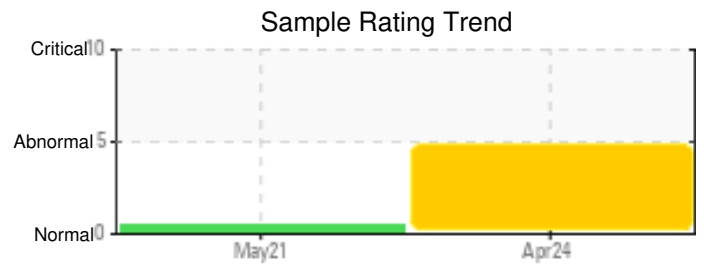
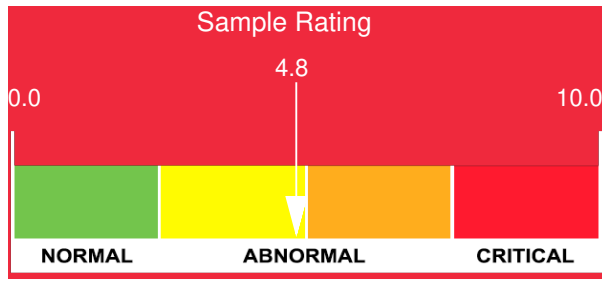
Customer: PTRHTF10011	System Information	Sample Information
G.F.S. CHEMICAL 851 Mckinley Avenue COLUMBUS, OH 43222 US Attn: Jamie Walters Tel: (800)446-4910 E-Mail: jamie@gfschemicals.com	System Volume: 50 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: HEAT INC	Lab No: 02635905 Analyst: Joe Goecke Sample Date: 04/01/24 Received Date: 05/15/24 Completed: 05/21/24 Joe Goecke joe.goecke@HFSinclair.com

Recommendation: Elevated silicon. All other parameters excellent. Will discuss future sampling with customer

Comments: Silicon ppm levels are severely high.

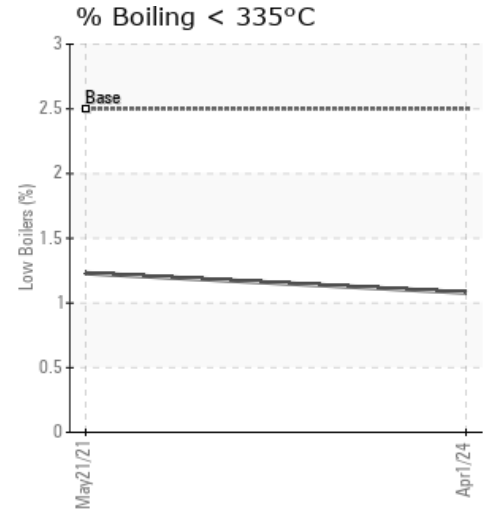
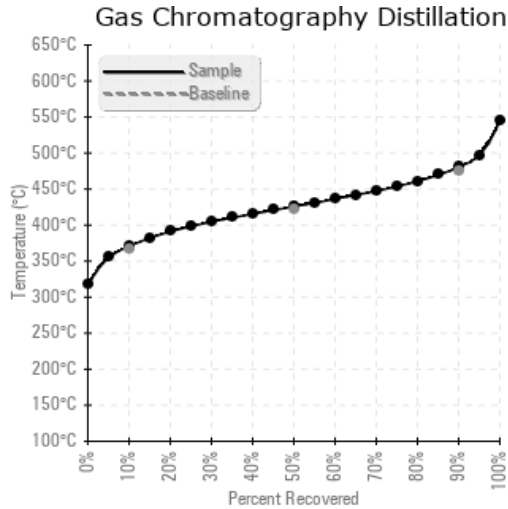
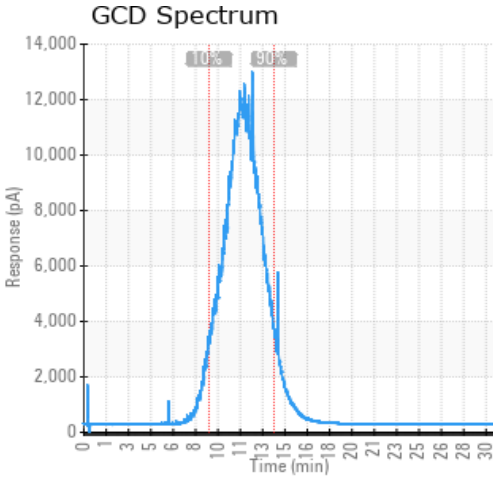
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/01/24	05/15/24	8.0y		457 / 236	20	32.0	0.10	0.048	699 / 371	798 / 426	897 / 481	1.08
05/21/21	10/05/21	3.0y		435 / 224	187.8	32.1	0.09	0.069	700 / 371	800 / 427	899 / 481	1.23
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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	158	0	0	0	0	0	0	0	0	0	0	0	193	0
05/21/21	2	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	276	2
Baseline Data			0	0						0			0	0					0				270	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments

05/21/21	Sample looks great. No issues. Continue to use and resample at next scheduled interval.

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