

B05RVD18/PM05-12

Customer: PTRHTF10011
 G.F.S. CHEMICAL
 851 Mckinley Avenue
 COLUMBUS, OH 43222 US
 Attn: Jamie Walters
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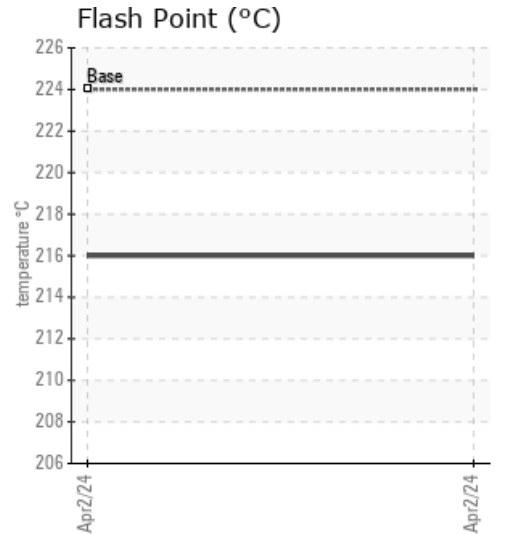
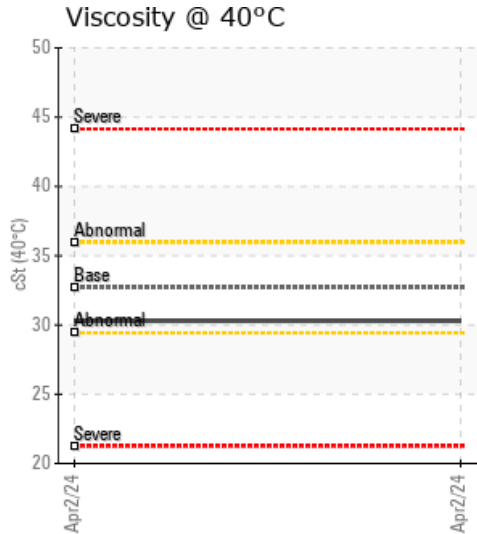
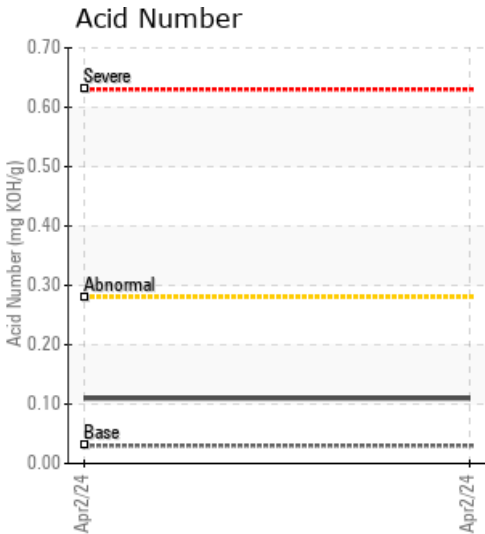
System Information
 System Volume: 75 gal
 Bulk Operating Temp: 350F / 177C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA CALFLO AF
 Make: CHROMALOX

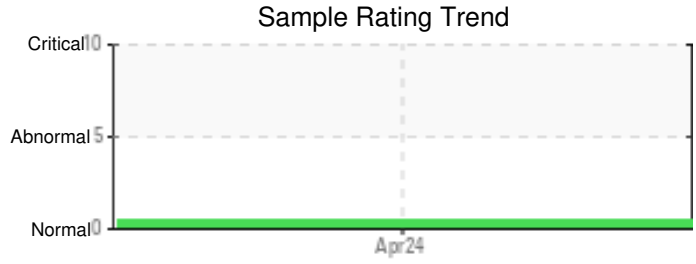
Sample Information
 Lab No: 02635902
 Analyst: Joe Goecke
 Sample Date: 04/02/24
 Received Date: 05/15/24
 Completed: 05/17/24
 Joe Goecke
 Joe.goecke@HFSinclair.com

Recommendation: System is in excellent condition. Will contact customer to discuss future sampling

Comments:

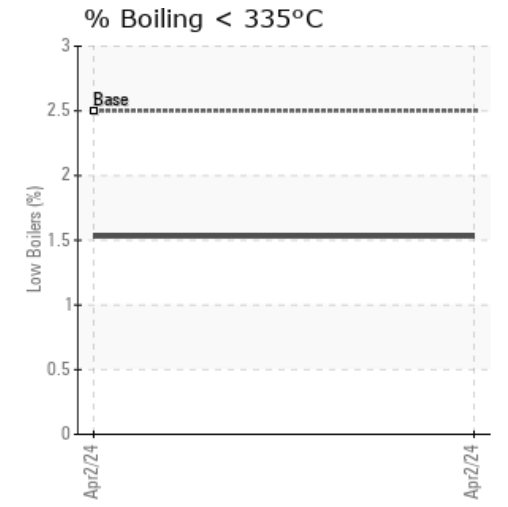
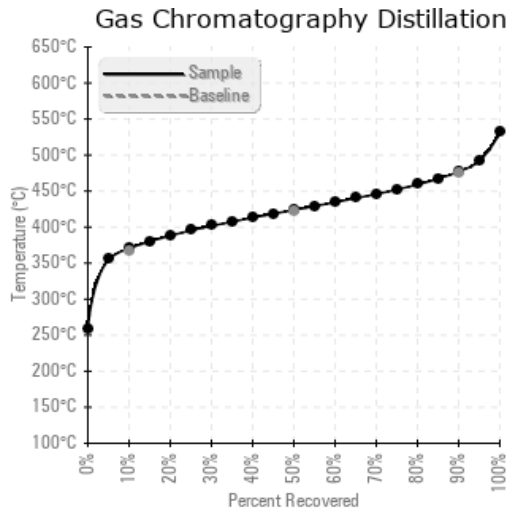
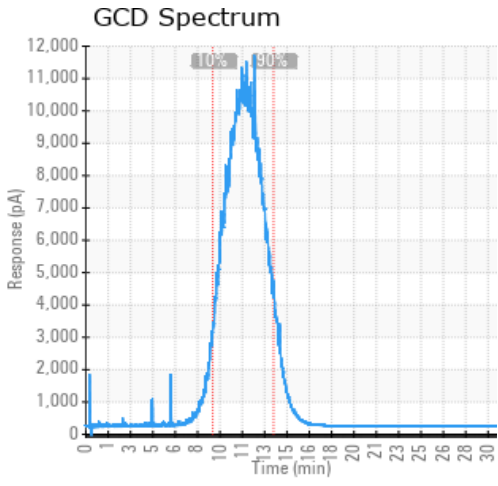
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/02/24	05/15/24	20.0y		421 / 216	24	30.3	0.11	0.058	699 / 370	795 / 424	891 / 477	1.53
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	
04/02/24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0
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

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