

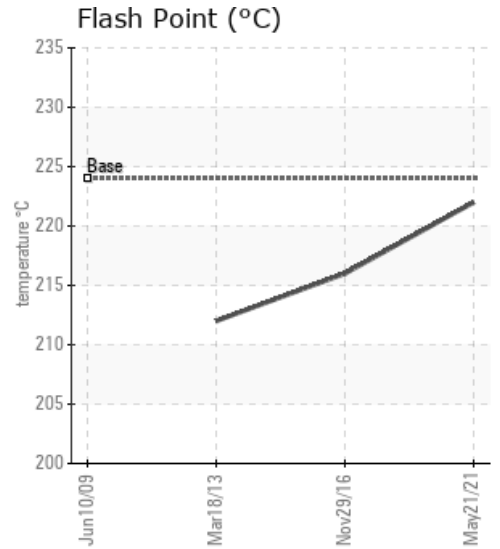
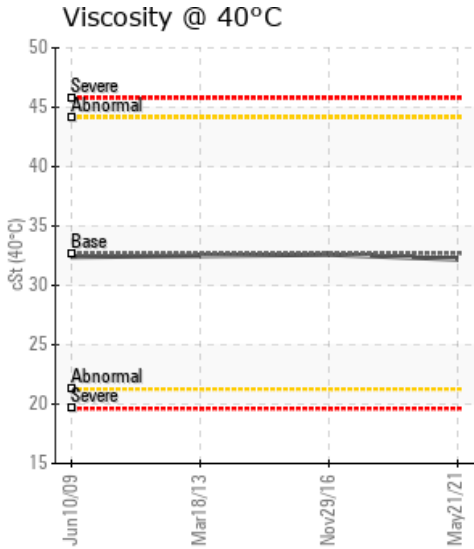
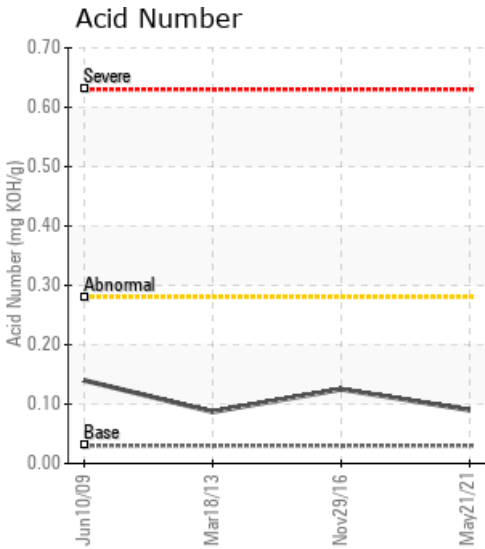
B01-21

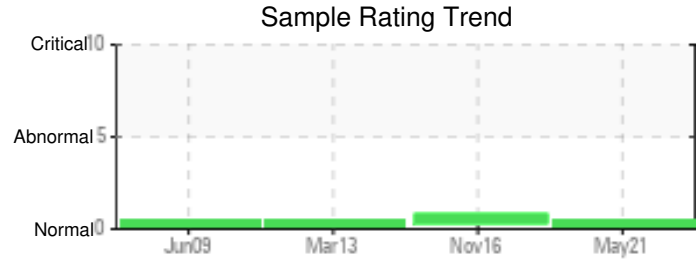
Customer: PTRHTF10011	System Information	Sample Information
G.F.S. CHEMICAL 851 Mckinley Avenue COLUMBUS, OH 43222 USA Attn: Jamie Walters Tel: (800)446-4910 E-Mail: jamie@gfschemicals.com	System Volume: 75 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02448271 Analyst: Joe Goecke Sample Date: 05/21/21 Received Date: 10/05/21 Completed: 10/12/21 Joe Goecke joe.goecke@hollyfrontier.com

Recommendation: Sample is in excellent condition. Continue to use and resample at next scheduled interval.

Comments:

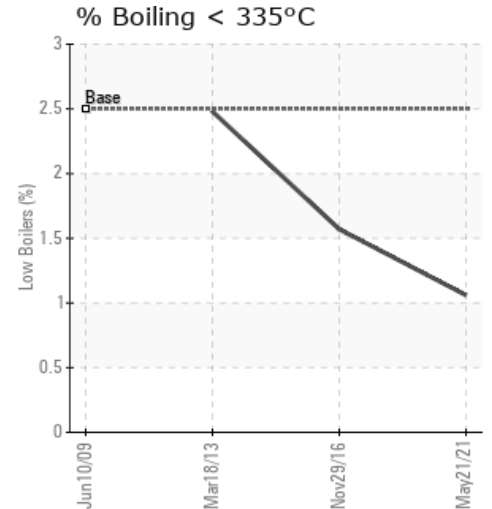
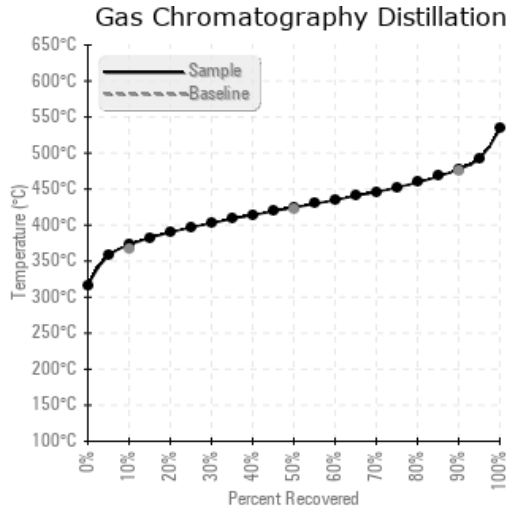
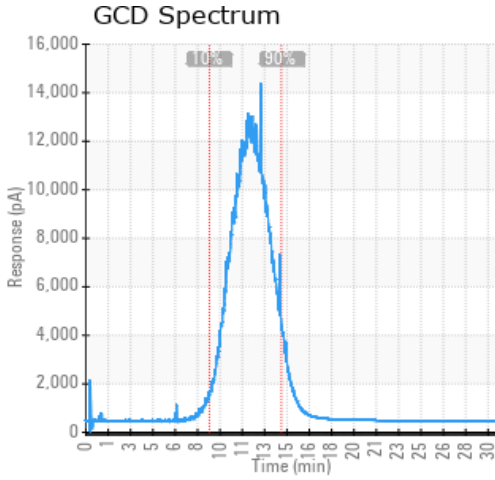
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/21/21	10/05/21	11.0y		432 / 222	7.2	32.2	0.09	0.129	703 / 373	796 / 424	892 / 478	1.06
11/29/16	12/20/16	0.0y		421 / 216	104.1	32.6	0.125	0.047	698 / 370	802 / 428	912 / 489	1.57
03/18/13	03/28/13	0.0y	RECIRC LINE	414 / 212	239.0	32.5	0.087	0.140	692 / 367	792 / 422	887 / 475	2.48
06/10/09	06/10/09					32.4	0.14					
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	
05/21/21	33	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	251	0	
11/29/16	40	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	251	0	
03/18/13	52	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	252	0	
06/10/09	36	0	0	0	0	0	1	0	0	0	3	1		0	0		0			0	0	0	247	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	
11/29/16	Sample shows no major issues, continue with use and resample at next scheduled interval (GCD) 90% Distillation Point is marginally high.
03/18/13	The test results indicate the fluid is suitable for further use. Additive balance is healthy, viscosity and flash point are just like fresh oil. The water content of 0.027% may explain the slightly troubled/hazy appearance of the sample but it is not concerning at this concentration.
06/10/09	

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