

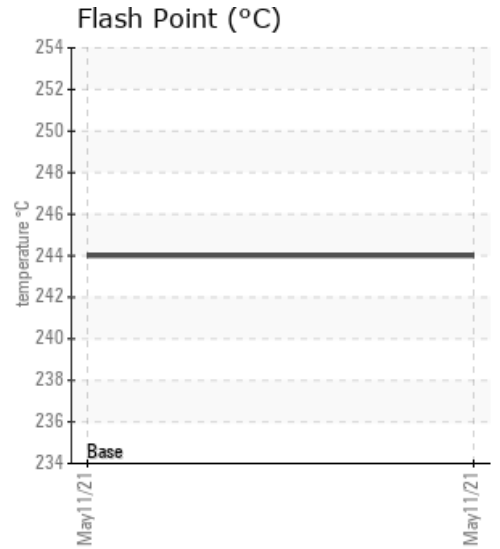
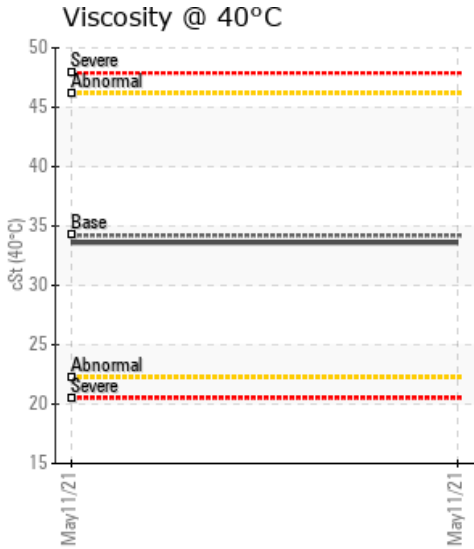
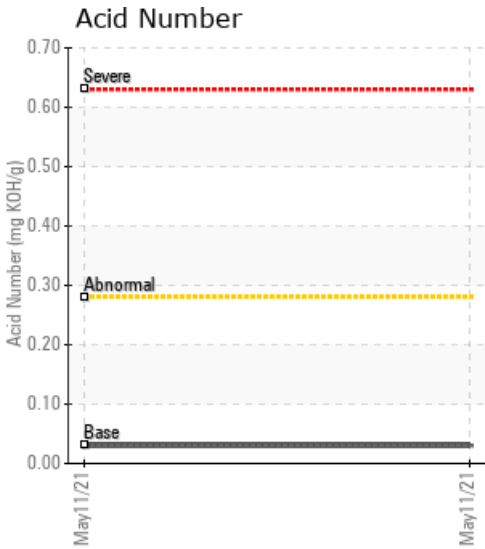
[SIMONETTE GAS PLANT / LSD: 9-6-63-25-W5] H-6630

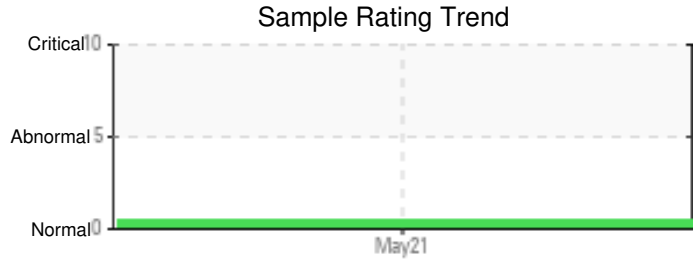
Customer: PTRHTF20187	System Information	Sample Information
KEYERA ENERGY- SIMONETTE GAS PLANT PO BOX 58 VALLEYVIEW, AB T0H 3N0 Canada Attn: Brody Shilka Tel: (780)835-1861 E-Mail: brody_shilka@keyera.com	System Volume: 14000 ltr Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02421969 Analyst: Clinton Buhler Sample Date: 05/11/21 Received Date: 05/18/21 Completed: 05/20/21 Clinton Buhler Clinton.Buhler@hollyfrontier.com

Recommendation: Sample results indicate that the heat transfer fluid is in suitable condition for continued service. Low boiling vapor content of 1.43% is only barely elevated above new fluid and fluid viscosity is only slightly reduced; fluid flash point being slightly elevated also doesn't indicate dilution with process fluid. Please re-sample in 6 months.

Comments:

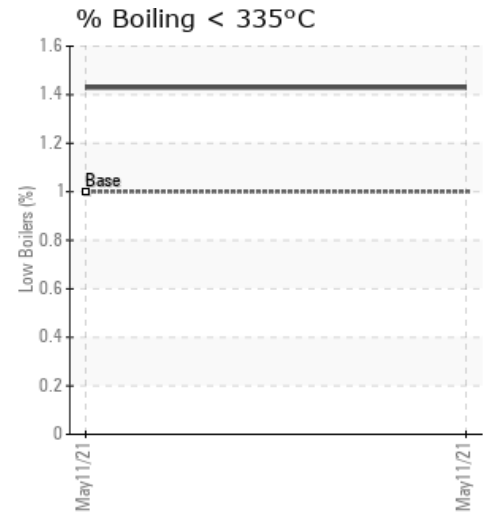
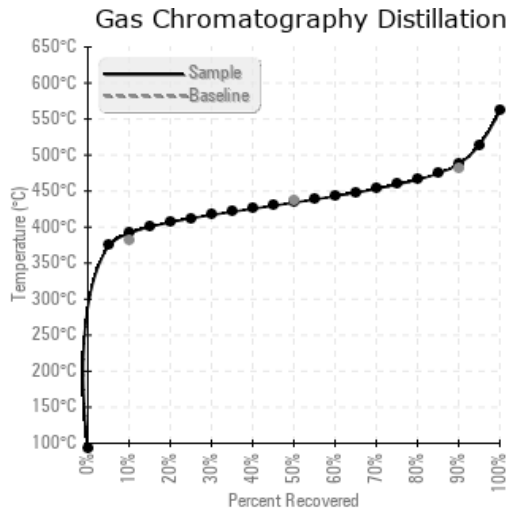
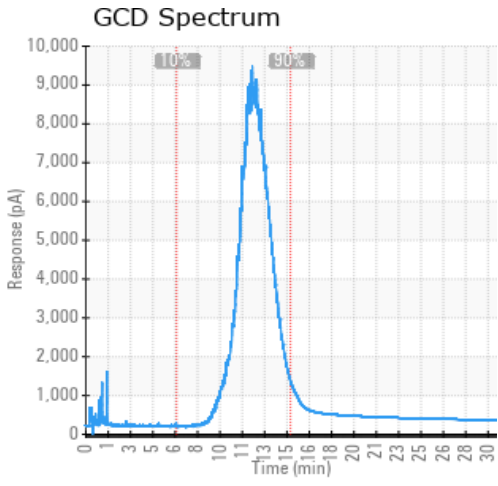
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/11/21	05/18/21	18.0m	Pump Discharge	471 / 244	51.9	33.6	0.03	0.097	736 / 391	813 / 434	909 / 487	1.43
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
05/11/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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

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