

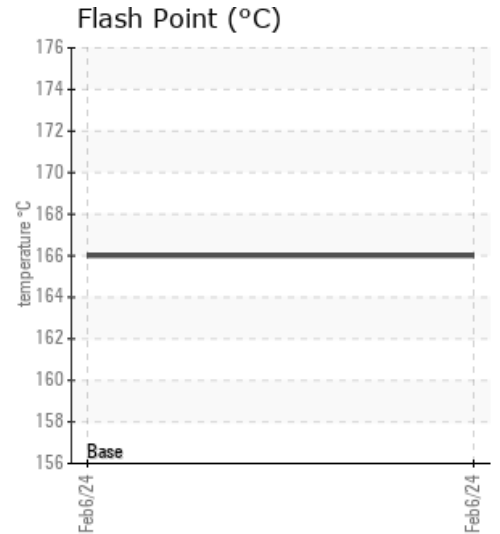
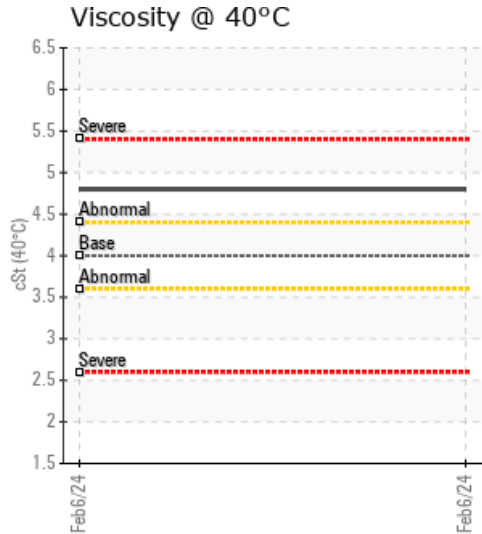
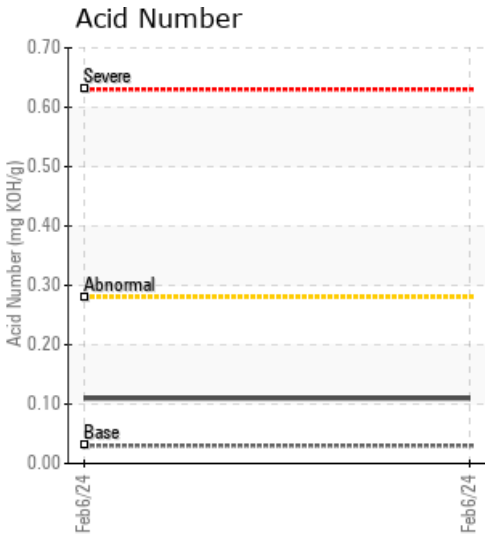
[03-19-67-07-W6M] KEYERA

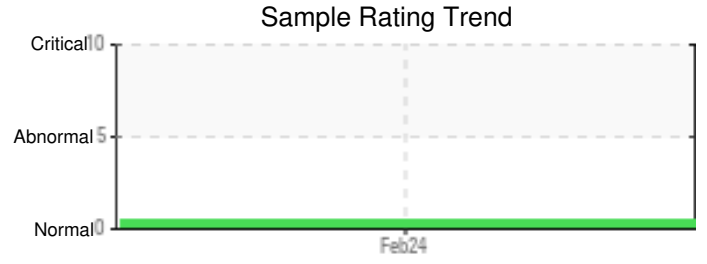
Customer: PTRHTF60058	System Information	Sample Information
Keyera Partnership 03-19-67-07 Grovedale, AB T0H 1X0 CA Attn: Matthew Gardiner Tel: (780)965-5558 E-Mail: matthew_gardiner@keyera.com	System Volume: 16300 ltr Bulk Operating Temp: 302F / 150C Heating Source: Blanket: Fluid: EASTMAN THERMINOL 59 Make:	Lab No: 02619441 Analyst: Clinton Buhler Sample Date: 02/06/24 Received Date: 03/01/24 Completed: 03/21/24 Clinton Buhler Clinton.Buhler@HFSinclair.com

Recommendation: Sample taken from blowdown heater. Results indicate the fluid is in suitable condition for continued service. Acid Number measures slightly higher than the 'filter slipstream' and 'atmospheric' samples.

Comments:

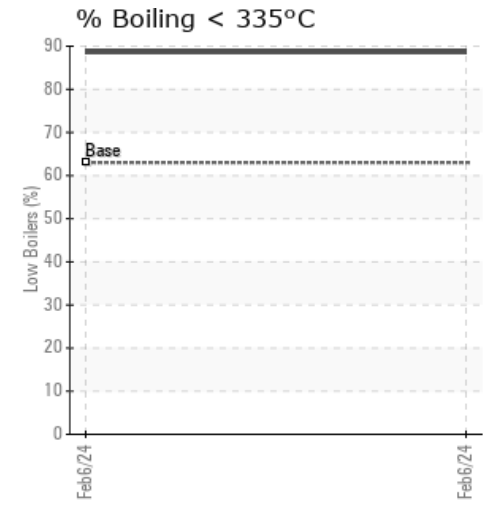
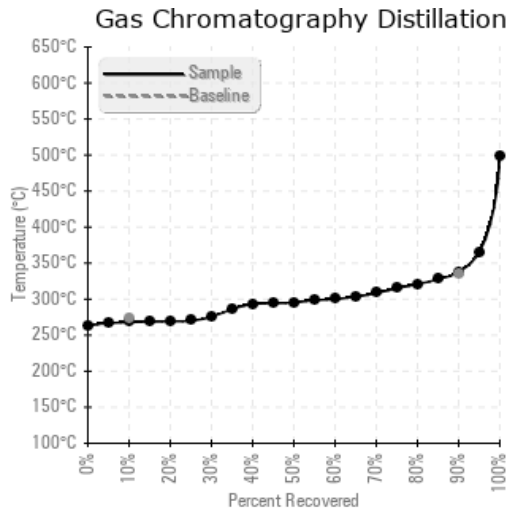
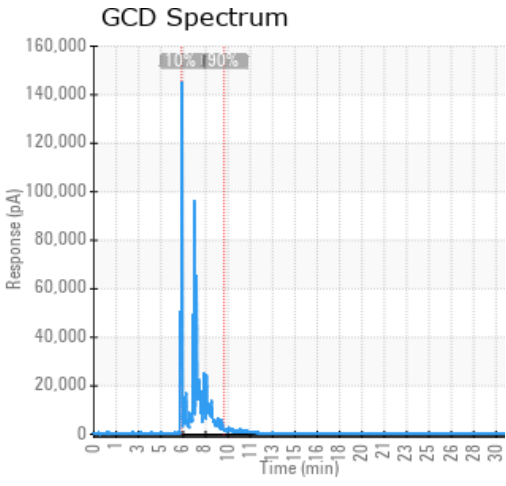
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/06/24	03/01/24	5.0y	blowdown heater	331 / 166	38	4.8	0.11	0.033	514 / 268	564 / 295	640 / 338	88.64
Baseline Data				295 / 146		4.0	0.03		525 / 274		635 / 335	63.00





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
02/06/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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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