

[03-19-67-07] KEYERA

Customer: PTRHTF60058
 Keyera Partnership
 03-19-67-07
 Grovedale, AB T0H 1X0 CA
 Attn: Matthew Gardiner
 Tel: (780)965-5558
 E-Mail: matthew_gardiner@keyera.com

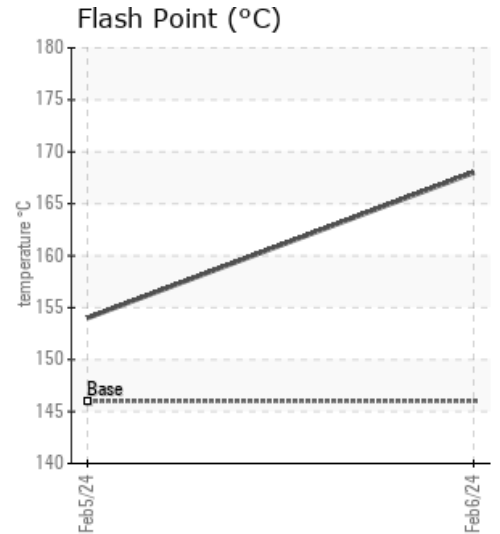
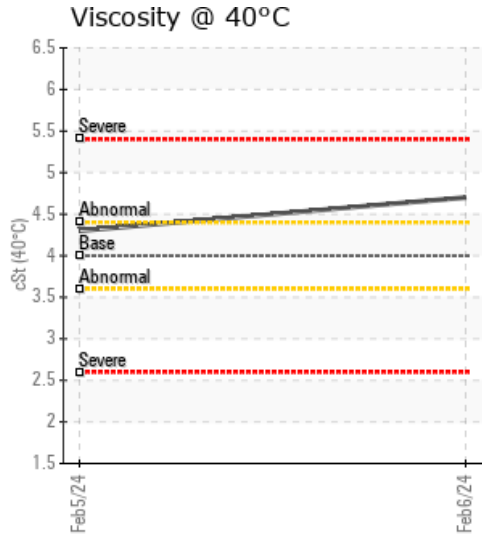
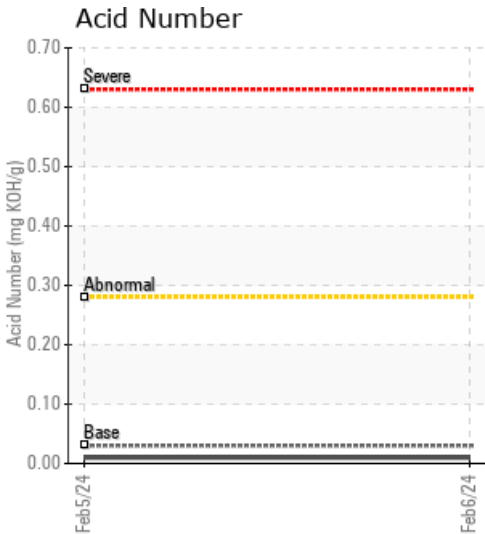
System Information
 System Volume: 170000 ltr
 Bulk Operating Temp: 464F / 240C
 Heating Source:
 Blanket:
 Fluid: EASTMAN THERMINOL 59
 Make:

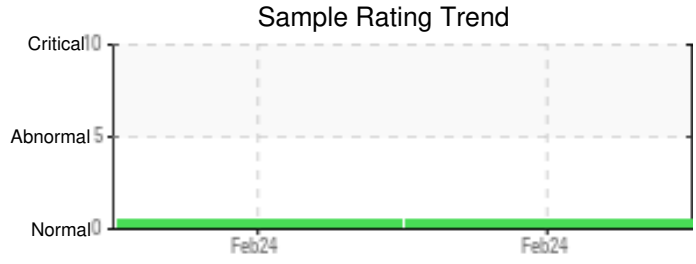
Sample Information
 Lab No: 02619442
 Analyst: Clinton Buhler
 Sample Date: 02/06/24
 Received Date: 03/01/24
 Completed: 03/21/24
 Clinton Buhler
 Clinton.Buhler@HFSinclair.com

Recommendation: Sampled labelled as 'atmospheric sample'. Results indicate the fluid is in suitable condition for continued service.

Comments:

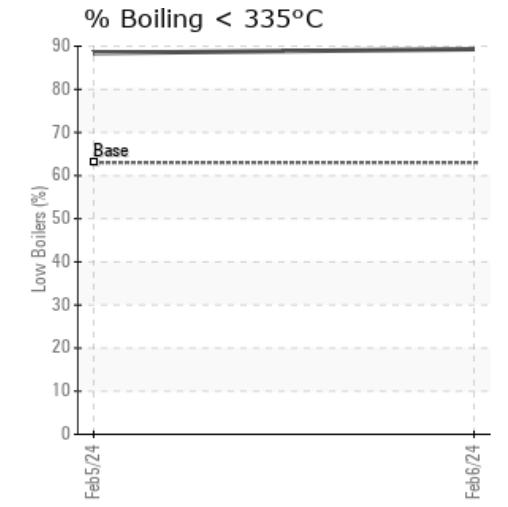
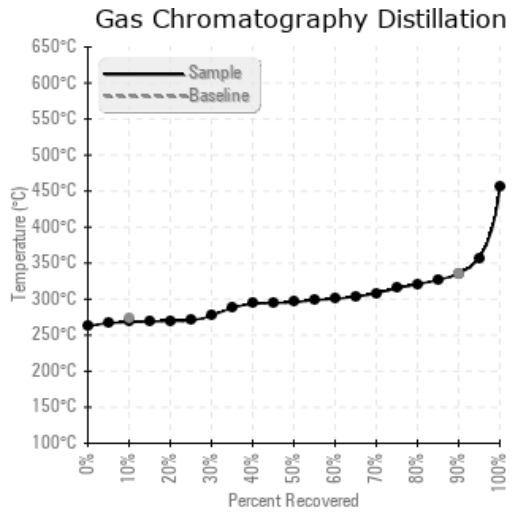
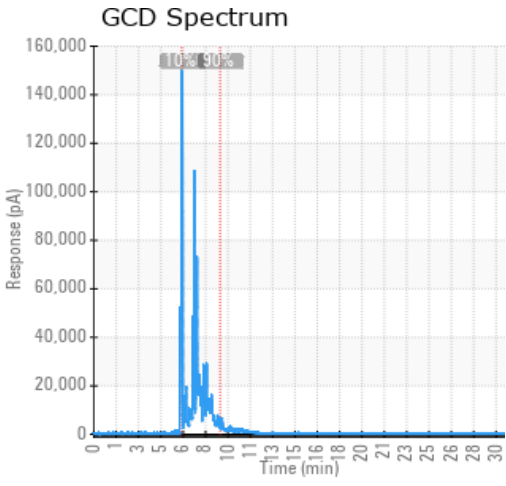
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/06/24	03/01/24	0.0y	atmospheric sample	334 / 168	40	4.7	0.01	0.019	515 / 268	564 / 296	636 / 336	89.30
02/05/24	03/01/24	5.0y	filter slipstream	309 / 154	49	4.3	0.01	0.015	515 / 268	564 / 296	641 / 338	88.42
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
02/05/24	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

02/05/24	Sample taken from slipstream filter. Sample results indicate the fluid is in suitable condition for continued service.

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