

[VESTA SYLVAN LAKE] 6-20-37-1-W5 HEAT MEDIUM #2

Customer: PTRHTF20261
 VESTA ENERGY
 6-20-37-1 W/5
 SYLVON LAKE, AB Canada
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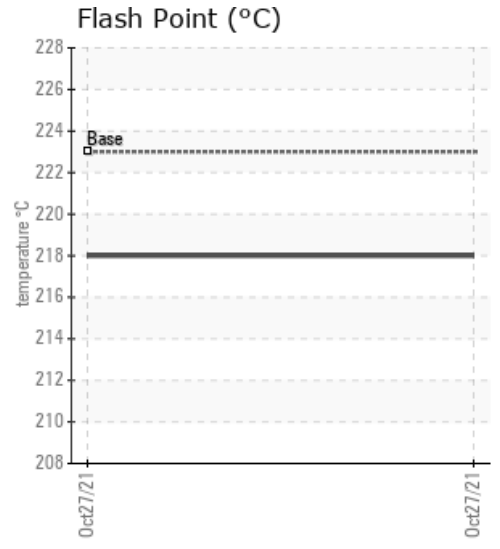
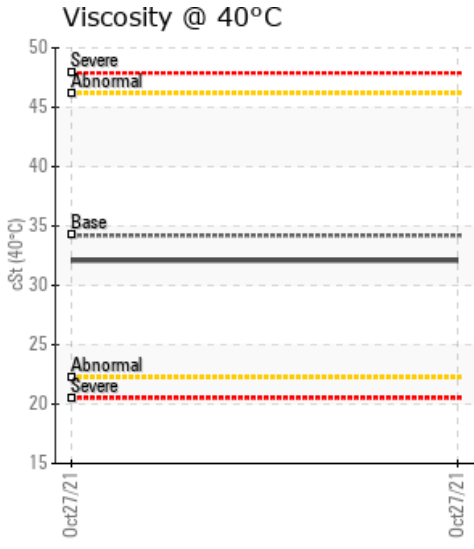
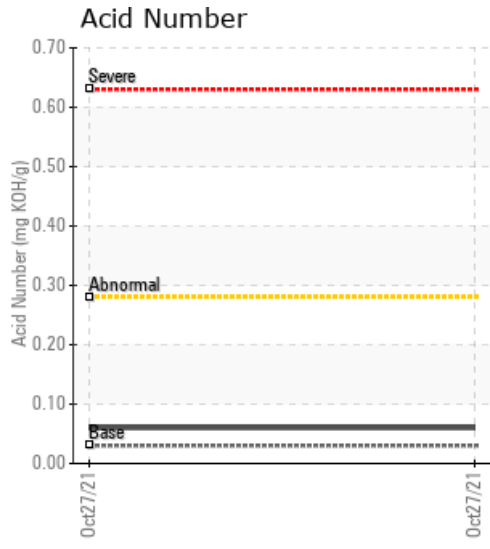
System Information
 System Volume: 13000 ltr
 Bulk Operating Temp: 329F / 165C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: ASPIRE MANUFACTURING

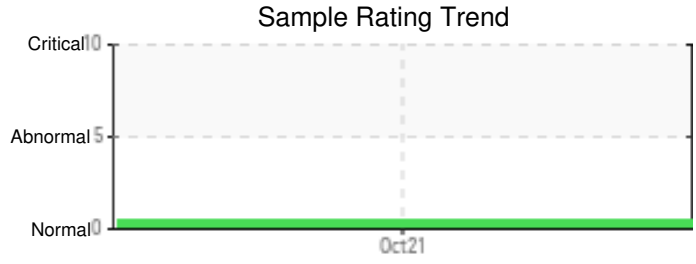
Sample Information
 Lab No: 02452568
 Analyst: Lyle Dach
 Sample Date: 10/27/21
 Received Date: 10/28/21
 Completed: 11/02/21
 Lyle Dach
 lyle.dach@hollyfrontier.com

Recommendation: Sample results indicate that the fluid is in good condition and acceptable for continued service. Metals, contamination, and water are all very low. Viscosity and flash point are in spec and acid number is low. GCD is good and pentane insolubles are low. Resample in 6 months.

Comments:

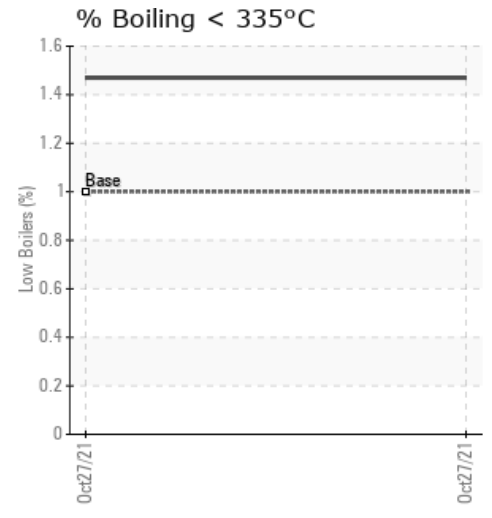
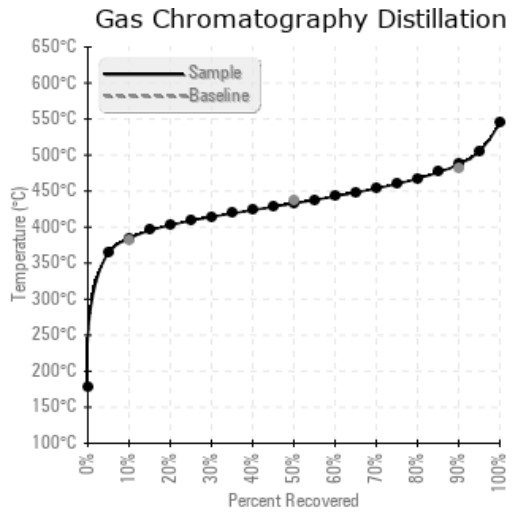
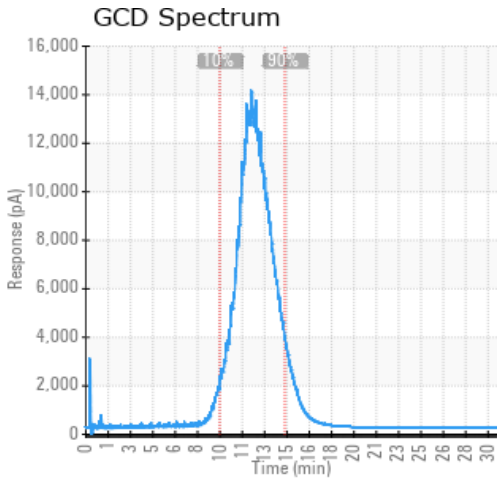
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/27/21	10/28/21	2.5m		424 / 218	44.4	32.1	0.06	0.035	724 / 384	811 / 433	909 / 487	1.47
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
10/27/21	1	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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