

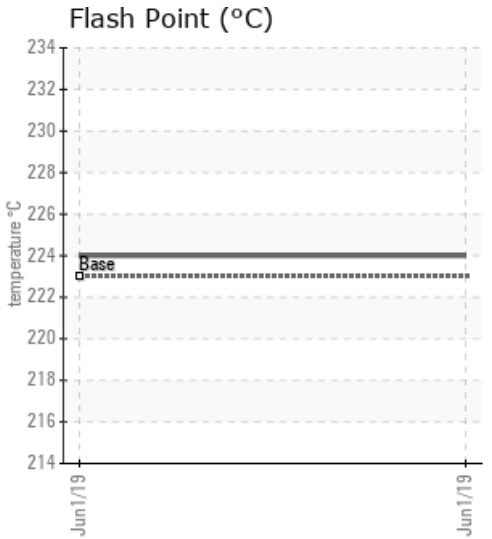
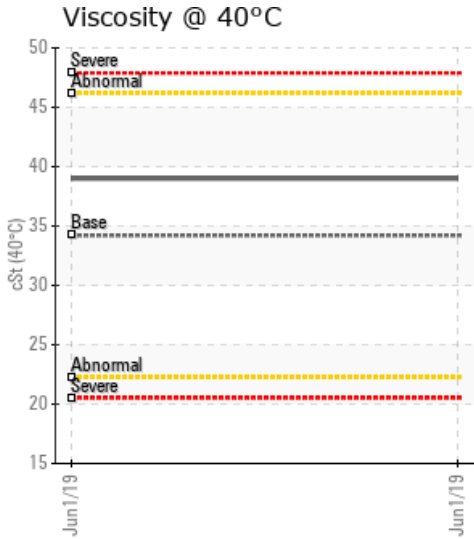
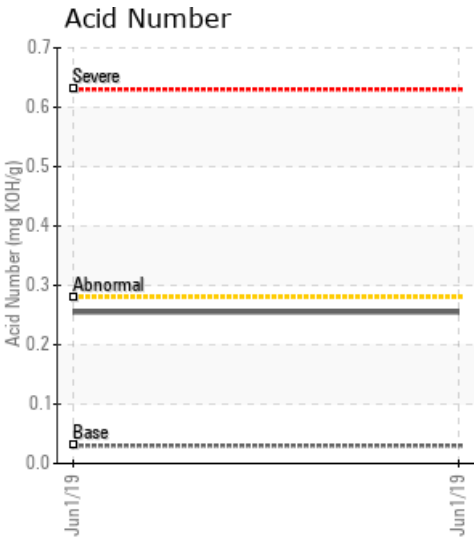
**[16-36-55-15W5] H127**

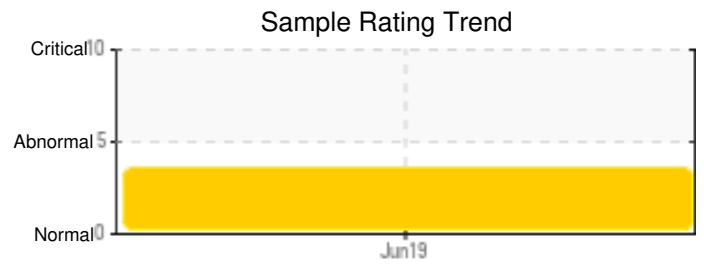
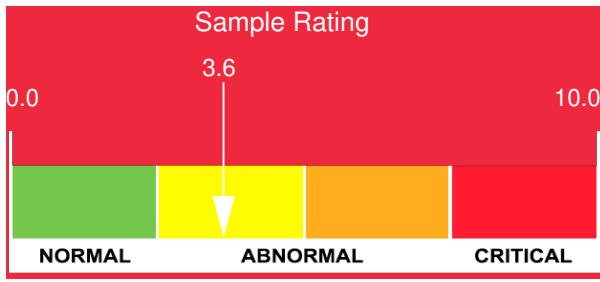
Customer: PTRHTF20212	System Information	Sample Information
VELVET ENERGY 16-36-55-15W5 EDSON, AB Canada Attn: Mack Hehn Tel: (780)712-4280 E-Mail: mhehn@velvetenergy.ca	System Volume: 10500 ltr Bulk Operating Temp: 374F / 190C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02290993 Analyst: Peter Harteveld Sample Date: 06/01/19 Received Date: 06/13/19 Completed: 07/11/19

Recommendation: The fluid is in a good condition and suitable for further use. A slight increase in viscosity and AN indicates oxidation. Please ensure the blanket gas system is in good working order. The Pentane Insoluble (Solids) content (0.66%) has exceeded the reportable limit of 0.5%. It is recommended to start filtration of the fluid to maintain cleanliness of the fluid. (lower the number of particles) Please re-sample in 6 months.

Comments: PQ levels are abnormal. Pentane Insolubles levels are severely high.

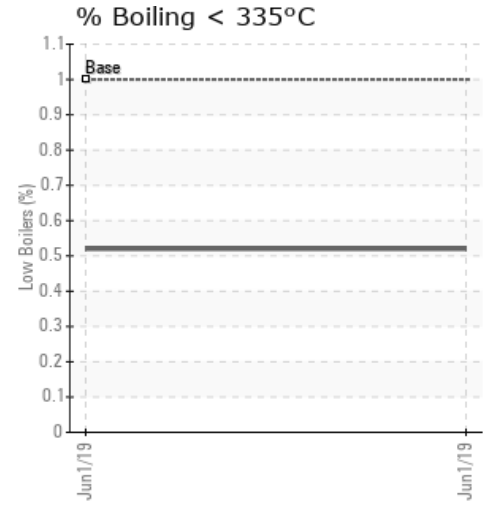
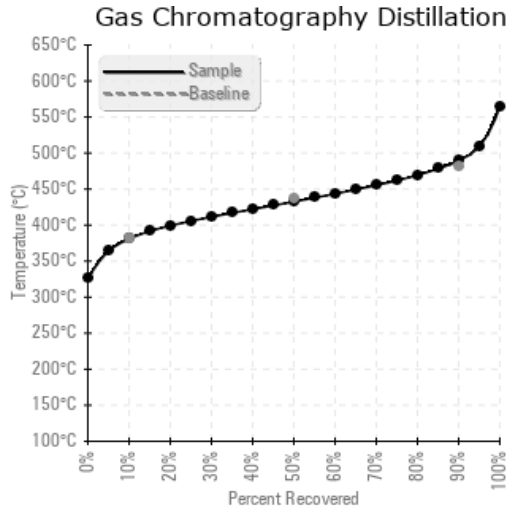
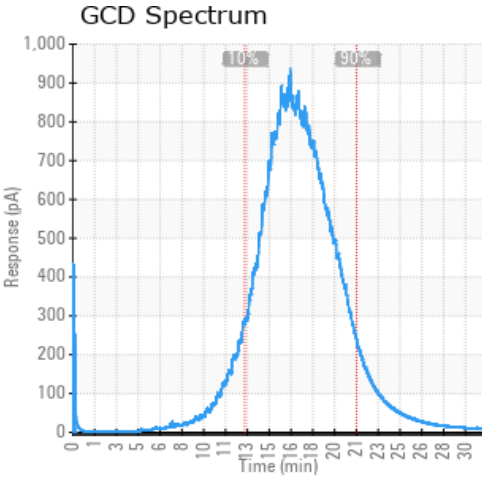
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/01/19	06/13/19	28m	MAIN SHELL	435 / 224	227.1	39.0	0.255	0.661	717 / 381	811 / 433	913 / 489	0.52
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
06/01/19	48	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	2	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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