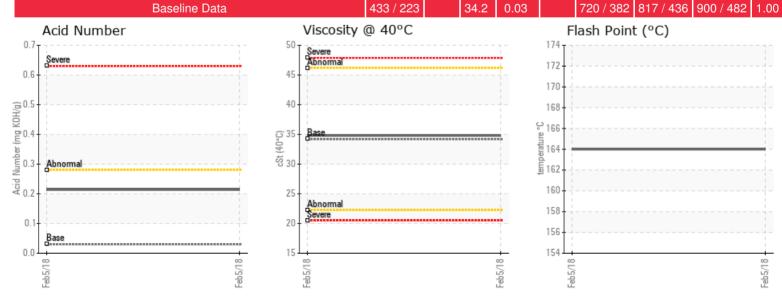


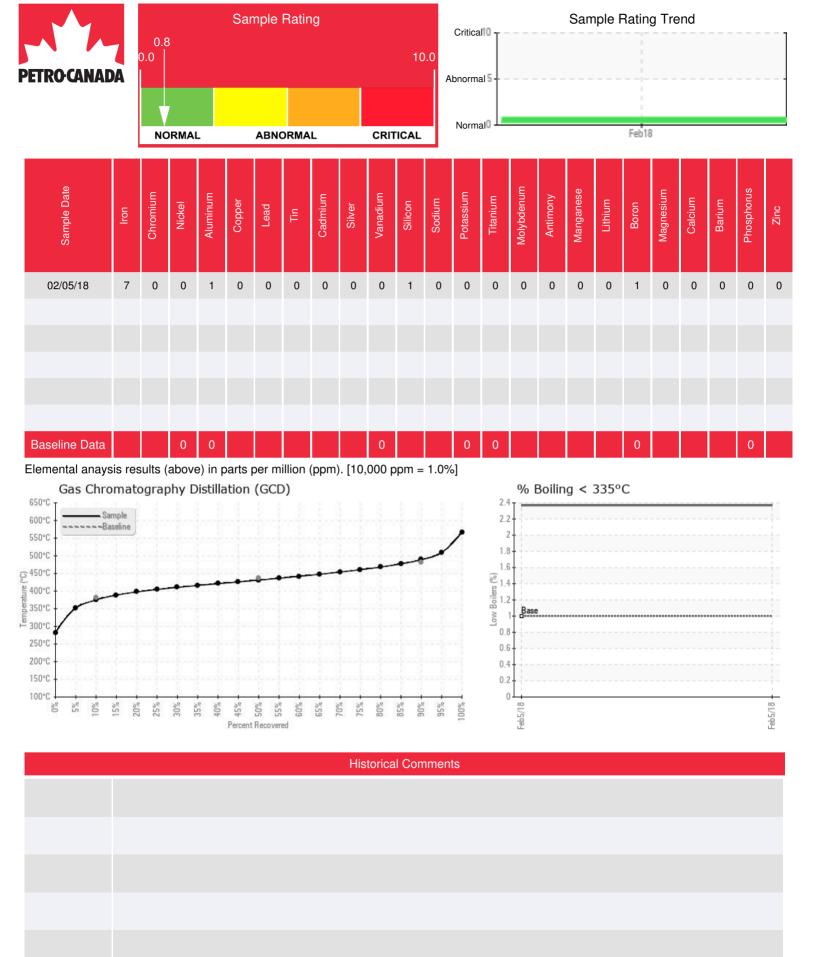
Customer: PTRHTF20194	System Information	Sample Information			
KANATA ENERGY GROUP	System Volume: 240 ltr	Lab No: 02200561			
DAIBER GAS PLANT A-54-C/94-B-16	Bulk Operating Temp: 599F / 315C	Analyst: Clinton Buhler			
FORT ST. JOHN, BC V1J 0H8 Canada	Heating Source:	Sample Date: 02/05/18			
Attn: Jason Carew	Blanket:	Received Date: 02/26/18			
Tel: (250)261-9197	Fluid: PETRO CANADA PETRO-THERM	Completed: 03/05/18			
E-Mail: jason.carew@kanataenergy.com	Make: ALCO GAS & OIL	To discuss this report contact Clinton			
		Buhler at 780-516-9920			

Recommendation: sample results indicate that the fluid is suitable for continued service. However, the reduced flash point, and slightly increased GCD % < 335°C can be indications of thermal degradation (cracking of the fluid molecules creating light ends). To help bring the flash point closer to new spec, perform a venting regime of the expansion tank. During venting, turn off the blanket gas to allow the light end vapors to escape. Re-sample in 6 months. Please ensure sample point is from a fluid zone most representative of system condition and that a thorough purge precedes the sample.

Comments: COC Flash Point is abnormally low.

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	%
02/05/18	02/26/18	Зу		327 / 164	159.7	34.8	0.214	0.263	707 / 375	808 / 431	912 / 489	2.37





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