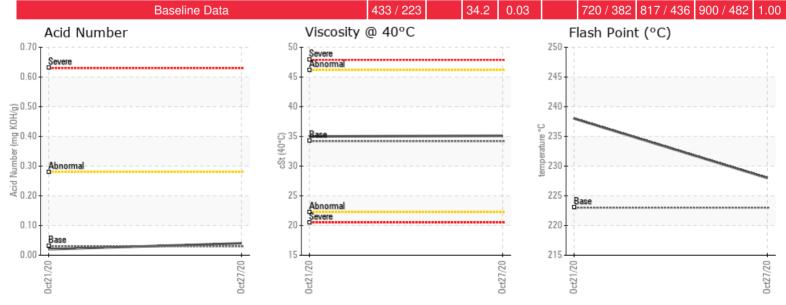


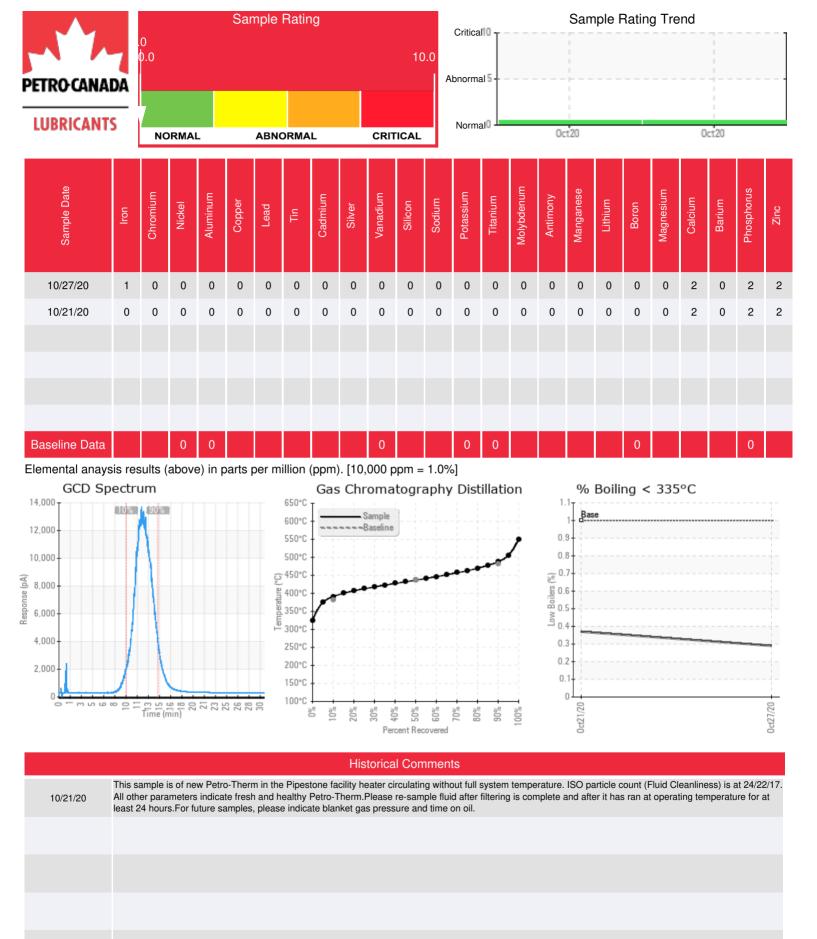
Attn: Eldon Weaver Tel: (780)831-5603 E-Mail: eweaver@nvaenergy.com Bulk Operating Temp: 392F / 200C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HEATECH Lab No: 02385353 Analyst: Clinton Buhler Sample Date: 10/27/20 Received Date: 11/04/20 Completed: 11/10/20 Clinton Buhler Clinton.Buhler@PetroCanadaLSP.com

Recommendation: Sample is after filtering of the fluid has began. Filtering is improving cleanliness as ISO particle count has gone from 24/22/17 to 23/21/14; solids has gone from 0.104% to 0.069%. Please re-sample once system is operational at normal operating temperatures.

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	%
10/27/20	11/04/20	7d	Piping from heater	442 / 228	22.0	35.1	0.04	0.069	735 / 391	818 / 436	909 / 487	0.29
10/21/20	10/28/20	0d		460 / 238	39.0	35.0	0.02	0.104	735 / 390	814 / 435	901 / 483	0.37





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