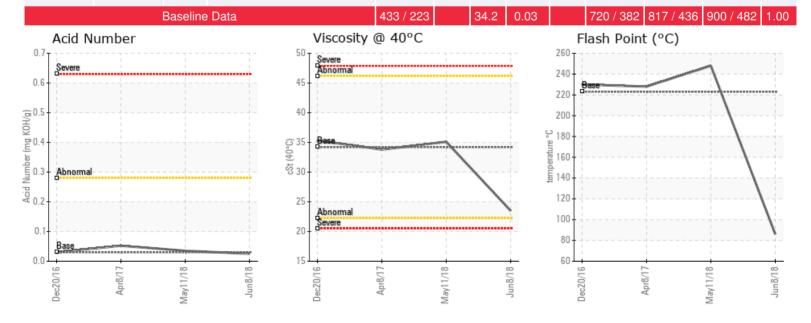
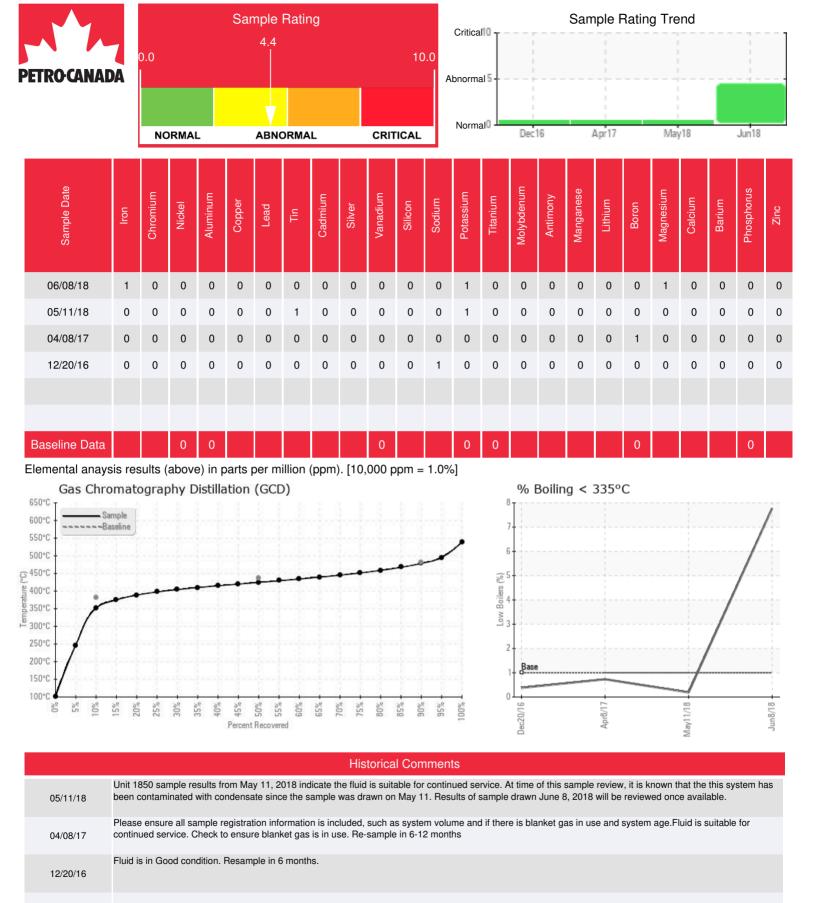


Recommendation: Sample results indicate that the heat transfer fluid is not suitable for continued service. COC flash point is severely low. This poses a safety risk if the fluid was to be re-used. The % boil off < 335°C value of 7.77 (new is 1%) also indicates severe contamination of the fluid with condensate. The fluid's viscosity @40C and 10% GCD also indicates this contamination. Fluid replacement should be considered. Once system has been cleaned and filled with fresh fluid, take a base-line fluid sample after initial filling and again after 24 hours of service at normal operating temperature. Please ensure sample registration cards reflect the new time on fluid.

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	%
06/08/18	06/15/18	0m	MIDDLE SIGHT GLASS	187 / 86	6.9	23.5	0.025	0.151	665 / 352	796 / 425	893 / 478	7.77
05/11/18	05/30/18	18m		478 / 248	8.2	35.1	0.035	0.028	722 / 383	812 / 434	917 / 492	0.19
04/08/17	05/26/17	5m	HEATER SIGHT GLASS	442 / 228	52.3	33.8	0.052	0.047	722 / 384	814 / 434	903 / 484	0.73
12/20/16	01/05/17	0m		446 / 230	123.3	35.3	0.030	0.060	724 / 385	816 / 436	905 / 485	0.38





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