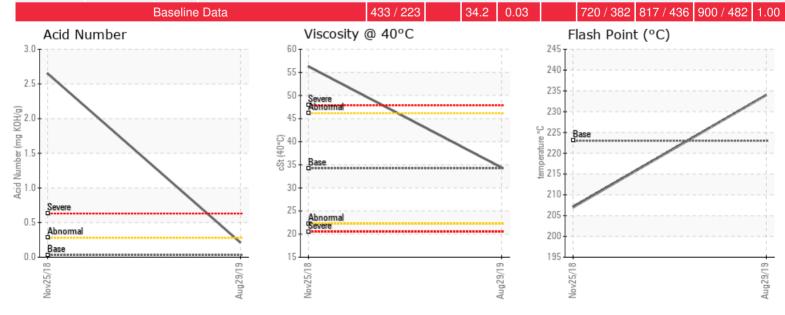


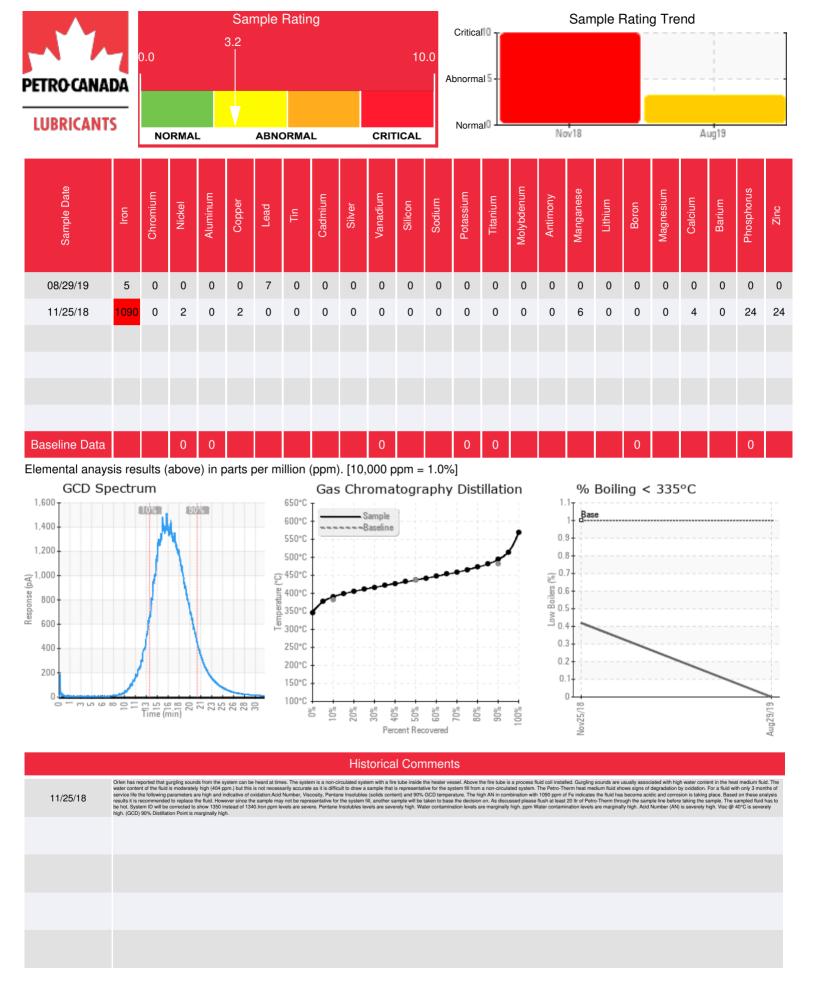
Customer: PTRHTF20175	System Information	Sample Information			
QUADRA CHEMICALS	System Volume: 20000 ltr	Lab No: 02305914			
7802 98 STREET	Bulk Operating Temp: 365F / 185C	Analyst: Clinton Buhler			
CLAIRMONT, AB T0H 0W0 Canada	Heating Source:	Sample Date: 08/29/19			
Attn: Quadra Samples	Blanket:	Received Date: 08/30/19			
Tel:	Fluid: PETRO CANADA PETRO-THERM	Completed: 09/11/19			
E-Mail: quadra_samples@quadra.ca	Make:				

Recommendation: Sample results indicate that the heat transfer fluid is suitable for continued service.Water contamination is present. Please safely vent water vapors from expansion tank and drain any free water from low points of the heater.Please resample in 6 months. Please ensure sample is drawn from the most representative zone. Thoroughly purge sample valve and piping prior to obtaining sample.

Comments: ppm Water contamination levels are marginally high. Water contamination levels are marginally high. (GCD) 90% Distillation Point is marginally 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	%
08/29/19	08/30/19	10m	SIGHTGLASS	453 / 234	352.3	34.4	0.211	0.202	734 / 390	818 / 437	919 / 493	0.00
11/25/18	12/14/18	3m		405 / 207	404.6	56.3	2.65	1.72	730 / 388	817 / 436	920 / 494	0.42





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