

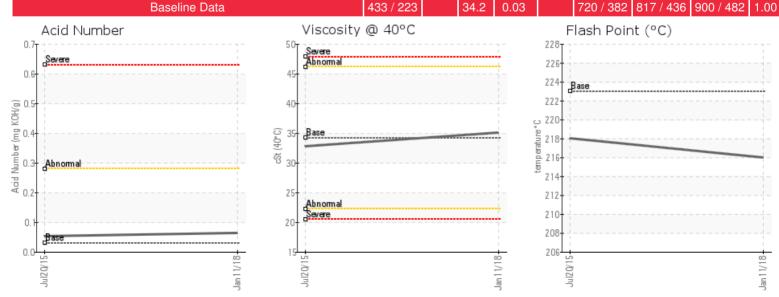
TOURMALINE WILD RIVER TRAIN 3 HEAT MEDIUM

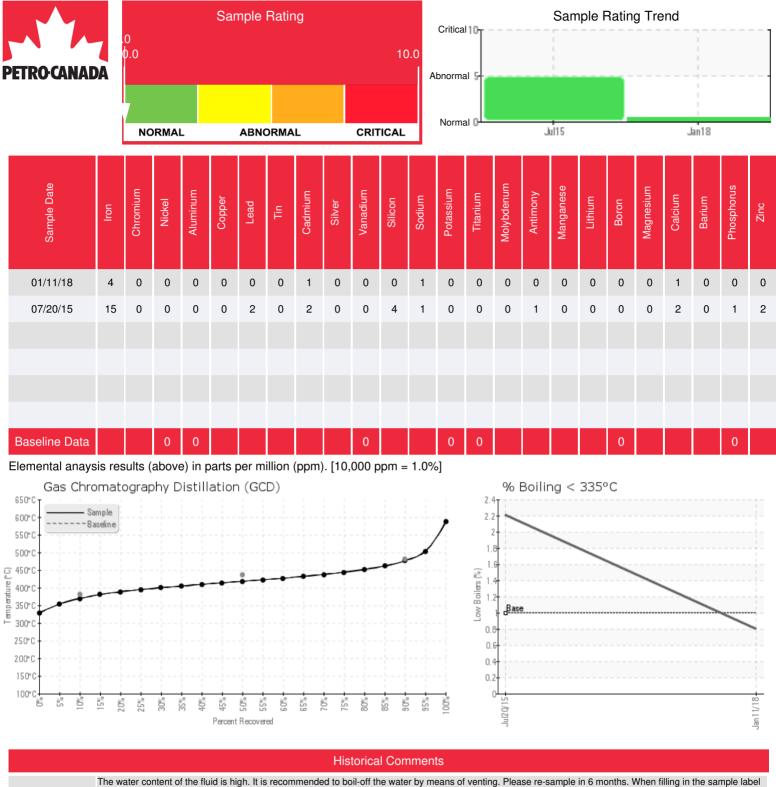
Customer: PTRHTF20046	System Information	Sample Information
QUADRA CHEMICALS	System Volume: 0 gal	Lab No: 02193420
12925 146TH STREET	Bulk Operating Temp: 446F / 230C	Analyst: Peter Harteveld
EDMONTON, AB T5L 2H6 CANADA	Heating Source:	Sample Date: 01/11/18
Attn: Ada Aponte	Blanket:	Received Date: 01/18/18
Tel:	Fluid: PETRO CANADA PETRO-THERM	Completed: 01/22/18
E-Mail: Ada_Aponte@quadra.ca	Make:	To discuss this report contact Peter
		Harteveld at (780)967-4234

Recommendation: It is important for getting value out of the analysis to list system volume and fluid service life. The diagnosis of analysis results takes these parameters into consideration. This has been requested several times in the past. Perhaps we should do a training to familiarize the operating personnel with the basics. The fluid is in excellent condition and suitable for further use. Please re-sample in 6 months.

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	%
01/11/18	01/18/18	0m		421 / 216	6.7	35.1	0.063	0.068	697 / 370	784 / 418	890 / 476	0.80
07/20/15	07/29/15	4m		424 / 218	1934.3	32.8	0.054	0.057	709 / 376	811 / 433	912 / 489	2.21





please list the system volume. The fluid is in good condition and suitable for further use. Water contamination levels are severely high. Water contamination levels are severely high. Water contamination levels are severely high.

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07/20/15