

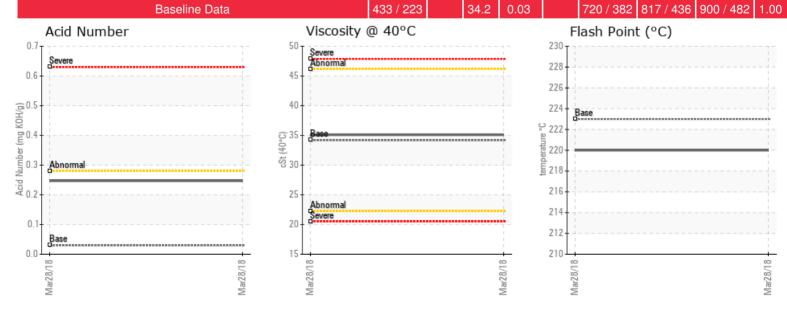
HEAT MEDIUM #1 ^3-18-80-17W6M

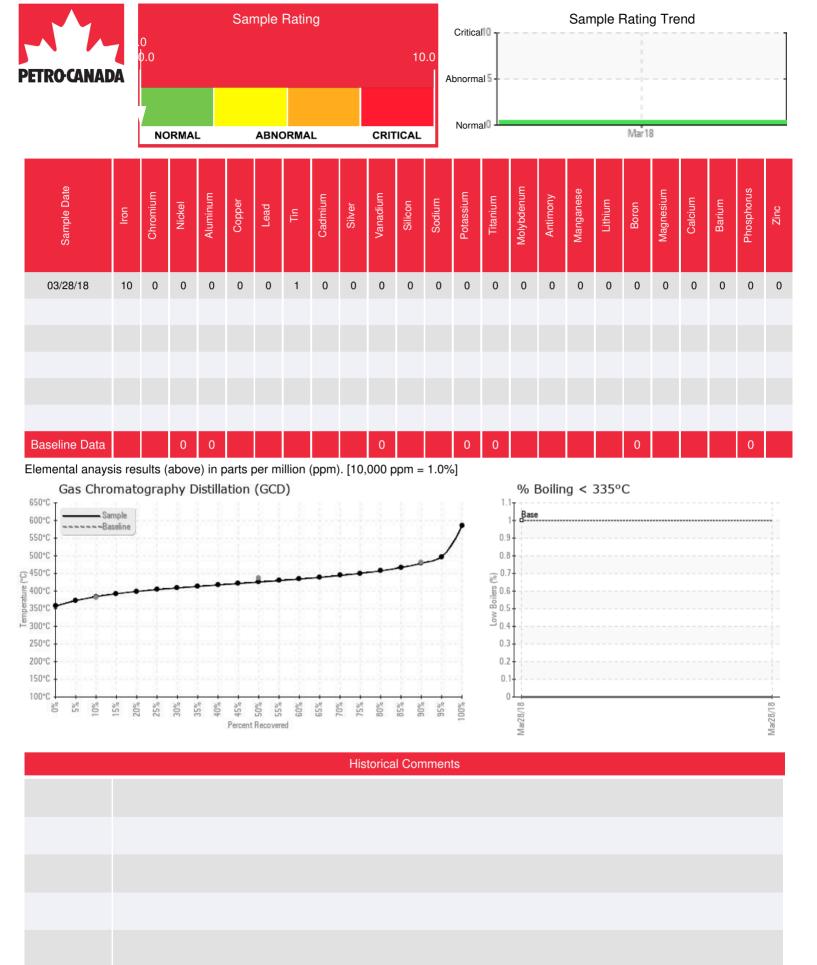
Customer: PTRHTF20156	System Information	Sample Information			
TOURMALINE OIL	System Volume: 15000 ltr	Lab No: 02208689			
13-25-80-16W6	Bulk Operating Temp: 392F / 200C	Analyst: Clinton Buhler			
9920 98a Ave	Heating Source:	Sample Date: 03/28/18			
FORT ST. JOHN, BC V1J 1S2 Canada	Blanket:	Received Date: 04/06/18			
Attn: Jordy Fossom	Fluid: PETRO CANADA PETRO-THERM	Completed: 04/23/18			
Tel: (250)219-9343	Make:	To discuss this report contact Clinton			
E-Mail: fossum@tourmaline.com		Buhler at 780-516-9920			

Recommendation: Sample results indicate that the thermal fluid is suitable for continued service. Please note that Acid Number of 0.247 and Iron content (possibly from corrosion) can be an early indication of oxidation. Please ensure that blanket gas is properly applied to the expansion tank.Re-sample in 6 months and please ensure sample is drawn off of pump discharge and that a thorough purge precedes the drawing of the sample.

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	%
03/28/18	04/06/18	18m		428 / 220	67.9	35.1	0.247	0.045	723 / 384	798 / 425	894 / 479	0.00





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