



2-11-80-16W6M

Customer: PTRHTF20156	System Information	Sample Information
TOURMALINE OIL 13-25-80-16W6 9920 98a Ave FORT ST. JOHN, BC V1J 1S2 Canada Attn: Jordy Fossom Tel: (250)219-9343 E-Mail: fossom@tourmaline.com	System Volume: 15000 ltr Bulk Operating Temp: 345F / 174C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02208690 Analyst: Clinton Buhler Sample Date: 03/28/18 Received Date: 04/06/18 Completed: 04/20/18 To discuss this report contact Clinton Buhler at 780-516-9920

Recommendation: The combination of Water content, Iron and Acid Number can be an indication that the sample was drawn from a dead leg without a thorough flush. Iron can indicate corrosion. Please always ensure sample is drawn off of pump discharge after a thorough purge of the sample valve and related piping. GCD values indicates minimal fluid degradation. Re-sample in 6 months, but ensure proper sampling process.

Comments: ppm Water contamination levels are severely high. Water contamination levels are severely 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	%
03/28/18	04/06/18	1y		428 / 220	3137.0	35.7	0.105	0.088	731 / 389	796 / 425	900 / 482	0.00
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



