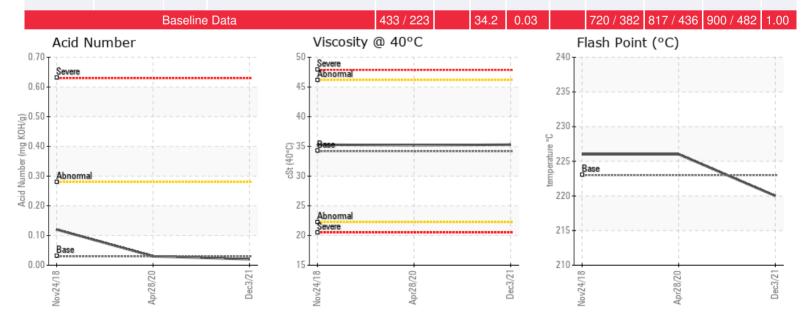


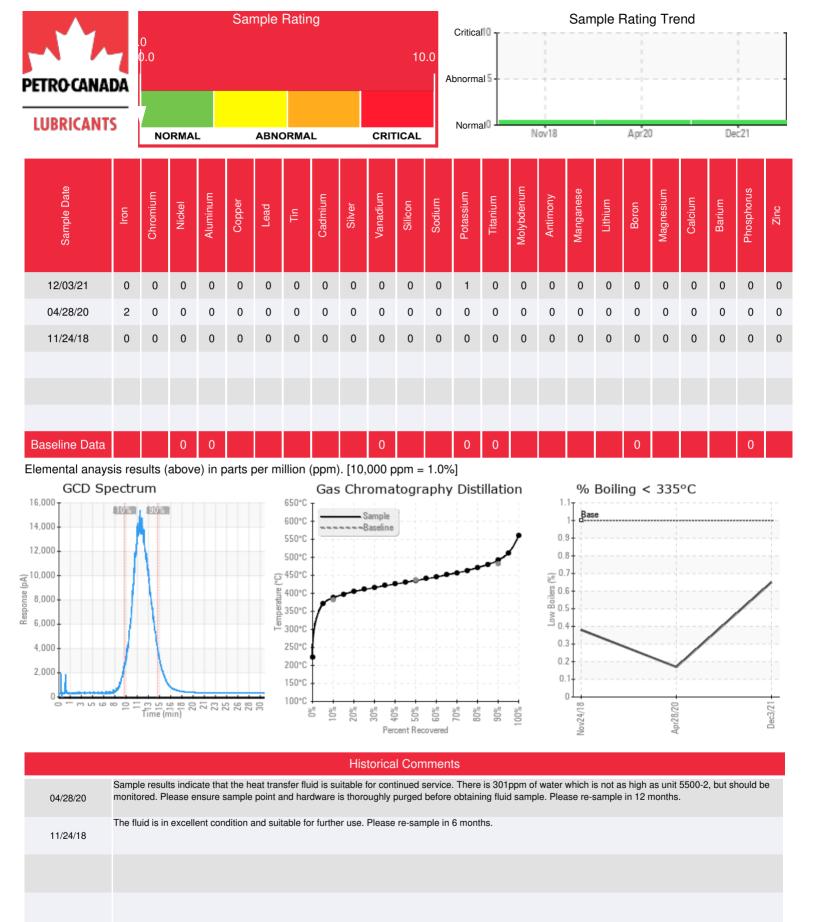
Customer: PTRHTF20156	System Information	Sample Information
TOURMALINE OIL	System Volume: 15000 ltr	Lab No: 02476628
9920 98a Ave	Bulk Operating Temp: 345F / 174C	Analyst: Clinton Buhler
FORT ST. JOHN, BC V1J 1S2 Canada	Heating Source:	Sample Date: 12/03/21
Attn: Brandon Braun	Blanket:	Received Date: 03/10/22
Tel: (250)262-5420	Fluid: PETRO CANADA PETRO-THERM	Completed: 03/16/22
E-Mail:	Make:	Clinton Buhler
Brandon.braun@tourmalineoil.com		Clinton.Buhler@hollyfrontier.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Please re-sample in 12 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	%
12/03/21	03/10/22	4.0m	Exp tank disch line	428 / 220	235.6	35.3	0.02	0.073	729 / 387	815 / 435	916 / 491	0.65
04/28/20	04/29/20	36.0m	EXPANSION TANK PUMP	439 / 226	301.3	35.2	0.03	0.067	733 / 390	817 / 436	917 / 492	0.17
11/24/18	12/18/18	18.0m		439 / 226	152.0	35.3	0.12	0.045	721 / 383	810 / 432	917 / 492	0.38





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