

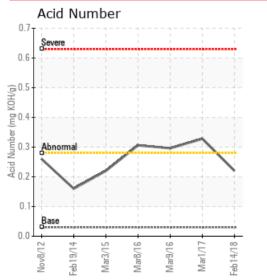
LOWER TANK FARM

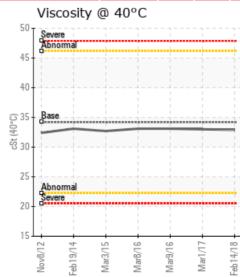
Customer: PTRHTF10125	System Information	Sample Information
TRANSMONTAIGNE	System Volume: 2500 gal	Lab No: 02198976
700 RIVER ROAD	Bulk Operating Temp: 300F / 149C	Analyst: Joe Goecke
COVINGTON, KY 41017 USA	Heating Source:	Sample Date: 02/14/18
Attn: ART HILTON	Blanket:	Received Date: 02/15/18
Tel: 1(859)331-0900	Fluid: PETRO CANADA PETRO-THERM	Completed: 02/16/18
E-Mail: ahilton@transmontaigne.com	Make: AMERICAN HEATING	To discuss this report contact Joe
, i i i i i i i i i i i i i i i i i i i		Goecke at (859)543-0092

Recommendation: Acid number slightly high but lower than previous. Continue to use and resample at next scheduled interval.

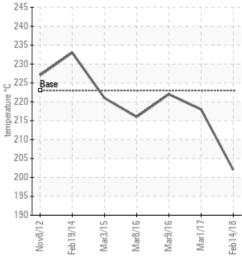
Comments:

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	%
02/14/18	02/15/18	6у		396 / 202	0.00	32.9	0.22	0.028	721 / 383	806 / 430	904 / 485	0.00
03/01/17	03/13/17	5y	BOOSTER PUMP	424 / 218	10.1	33.0	0.328	0.050	699 / 370	798 / 426	913 / 489	1.43
03/09/16	03/16/16	8760y	BOOSTER PUMP	432 / 222	0.00	33.1	0.296	0.077	699 / 370	798 / 425	915 / 491	1.05
03/08/16	03/16/16	8760y	BOOSTER PUMP	421 / 216	0.00	33.1	0.306	0.059	698 / 370	796 / 425	909 / 487	1.17
03/03/15	03/20/15	8760y	LOWER TAND FORM	430 / 221	0.7	32.7	0.22	0.139	666 / 352	796 / 424	938 / 503	5.69
02/19/14	03/05/14	5y	PUMP PAD	451 / 233	12.7	33.1	0.16	0.027	695 / 368	796 / 425	897 / 481	2.00
Baseline Data		433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00		



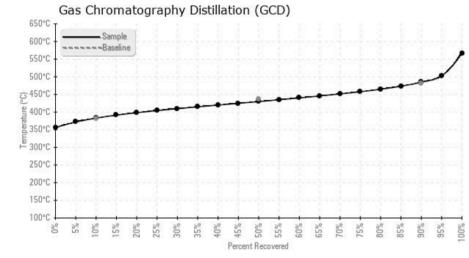


Flash Point (°C)

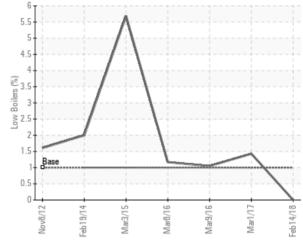




Elemental anaysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]







H	istor	ical	Con	nme	ents

03/01/17	Acid number is slightly high but all other parameters look normal. Continue to monitor and use with resample at next scheduled interval. Acid Number (AN) is abnormally high.
03/09/16	Oil is in good condition. Acid number is starting to increase which is a sign of oxidation but is not an issue at this time. Please resample at the next maintenance interval. Acid Number (AN) is abnormally high.
03/08/16	Oil is in good condition, no issues. Please resample at the next maintenance interval.
03/03/15	The sample is showing signs of oxidation due to the high GCD 90% value. Please resample in 6 months to monitor oxidation. (GCD) 90% Distillation Point is severely high.
02/19/14	The fluid is in excellent condition. Sample at next normal interval.

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.