



## FREMONT RPG

Customer: PTRHTF10036	System Information	Sample Information
	System Volume: 5000 gal Bulk Operating Temp: 450F / 232C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO HTF Make: FIRST THERMAL	Analyst: Gaston Arseneault Sample Date: 12/19/18 Received Date: 01/17/19 Completed: 01/18/19

Recommendation: The results are identical to the last sample. The Acid Number remains high at 0.43 so recommendations from the last sample still apply. We suggested to replace a certain percentage of the fluid, like 20% in order to dilute the oxidation products present.

Comments: Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is marginally low.

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	%
12/19/18	01/17/19	0y		403 / 206	5.8	30.8	0.427	0.083	671 / 355	774 / 412	884 / 473	3.91
09/19/18	10/01/18	6y		403 / 206	2.7	30.8	0.44	0.048	700 / 371	790 / 421	878 / 470	0.52
08/22/18	08/31/18	6y	MAIN SUPPLY	388 / 198	9.1	27.4	0.441	0.083	699 / 371	795 / 424	905 / 485	0.70
02/21/18	03/02/18	0y		399 / 204	5.6	29.3	0.34	0.030	688 / 365	781 / 416	869 / 465	2.08
09/22/17	10/11/17	0y		403 / 206	11.1	30.7	0.33	0.075	697 / 369	806 / 430	912 / 489	3.06
08/17/17	08/30/17	4y	MAIN SUPPLY HTR AFTR	392 / 200	21.3	30.2	0.509	0.052	687 / 364	802 / 428	911 / 488	4.24
Baseline Data				448 / 231		35.20	.1		712 / 378	810 / 432	910 / 488	1.75

