

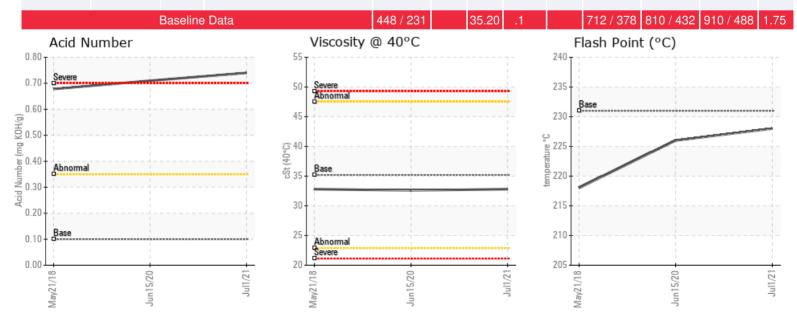
## 009-HE-103

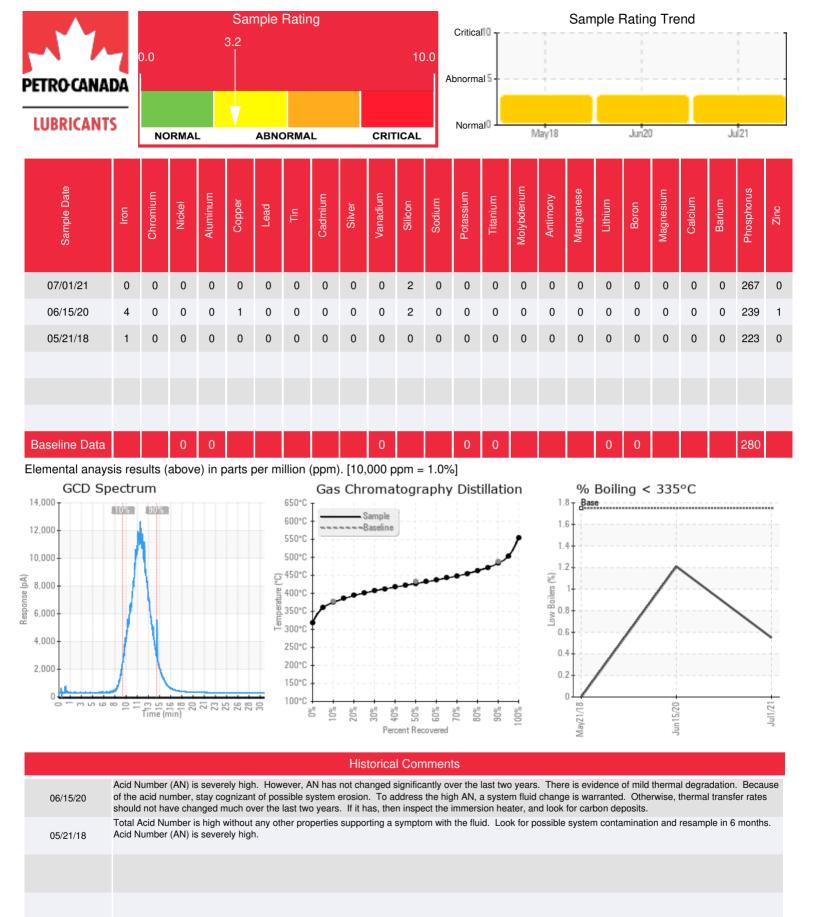
Customer: PTRHTF10177	System Information	Sample Information			
Materia Inc	System Volume: 300 gal	Lab No: 02434453			
7629 State Hwy 75 South	Bulk Operating Temp: 320F / 160C	Analyst: Garrett Bapp			
Huntsville, TX 77340 USA	Heating Source:	Sample Date: 07/01/21			
Attn: Robert Durr	Blanket:	Received Date: 07/22/21			
Tel: (713)447-9561	Fluid: PETRO CANADA CALFLO HTF	Completed: 07/30/21			
E-Mail: rdurr@materia-inc.com	Make: ADVANTAGE	Garrett Bapp			
		Garrett.Bapp@hollyfrontier.com			

Recommendation: All parameters are inline except for acid number. Due to the volume size and overall good health of the fluid, we should engage in talks of system history to make a corrective action plan.

Comments: Acid Number (AN) is 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	%
07/01/21	07/22/21	2.0y	TANK	442 / 228	15.0	32.8	0.74	0.095	705 / 374	800 / 427	902 / 484	0.55
06/15/20	06/25/20	4.0y	TANK	439 / 226	17.7	32.6	0.71	0.120	702 / 372	799 / 426	902 / 483	1.21
05/21/18	06/06/18	0.0y		424 / 218	14.7	32.8	0.678	0.052	709 / 376	781 / 416	877 / 469	0.00





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