

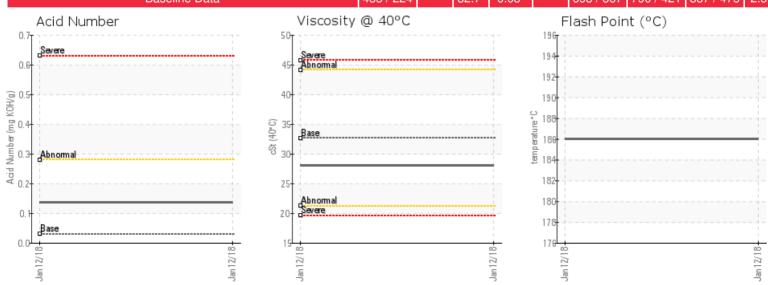
HEAT TRANSFER FLUID

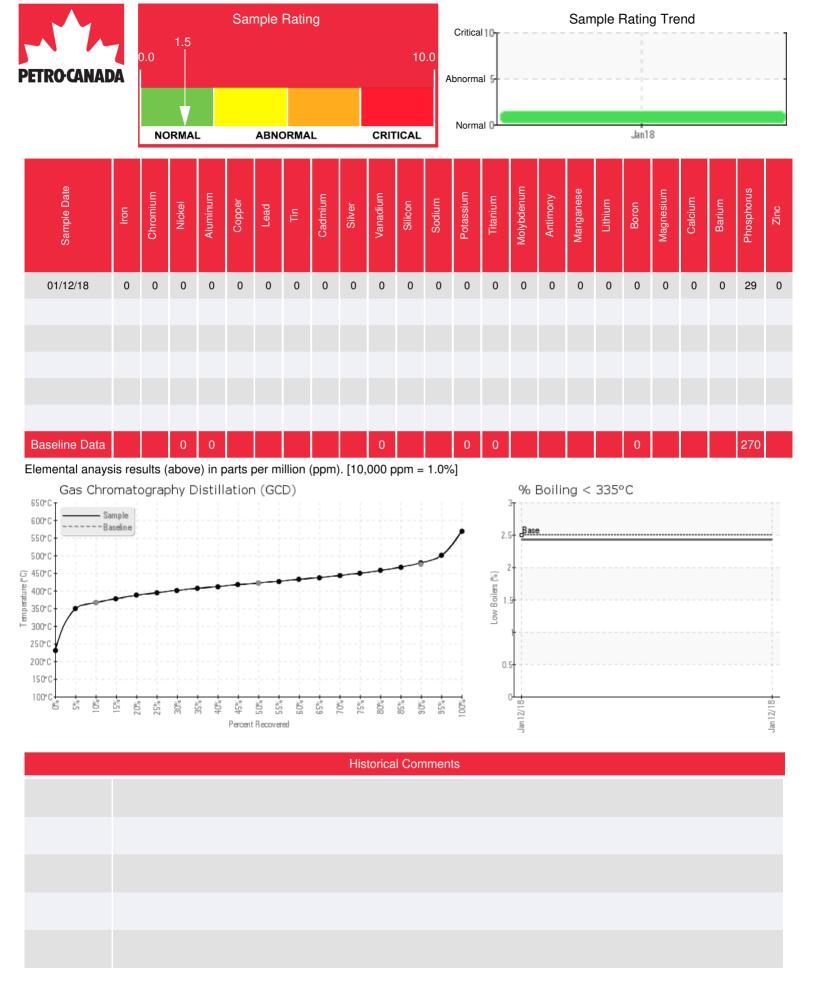
Customer: PTRHTF30110	System Information	Sample Information
HP POLYMERS LTD	System Volume: 1000 ltr	Lab No: 02192815
32 KERR CRESCENT	Bulk Operating Temp: 572F / 300C	Analyst: Adam Koscielak
PUSLINCH, ON N0B 2J0 Canada	Heating Source:	Sample Date: 01/12/18
Attn: Joan Polena	Blanket:	Received Date: 01/16/18
Tel: (519)826-0374	Fluid: PETRO CANADA CALFLO AF	Completed: 01/19/18
E-Mail: jpolena@hppolymers.com	Make: PHOENIX	To discuss this report contact Adam
		Koscielak at 905-331-1323

Recommendation: Viscosity of the Calflo AF sample is slightly lower, and the flash point has been reduced slightly. Percentage of low boiling material, % <335°C is approaching the 2.5%. Recommend venting the expansion tank if possible, or replacing some of the Calflo AF in use with fresh product, to raise the flash point and reduce the level of lower boiling components in the system. All other parameters are normal, system is dry and contains a low level of solids.Fluid is suitable for continued use, and recommend another sample be taken after venting or replacement of some Calflo to see if the lower boiling material has been reduced, in 4 - months.

Comments: COC Flash 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	%
01/12/18	01/16/18	4y		367 / 186	12.9	28.1	0.136	0.019	691 / 366	791 / 422	895 / 480	2.43
		Baseline	Data	435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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