

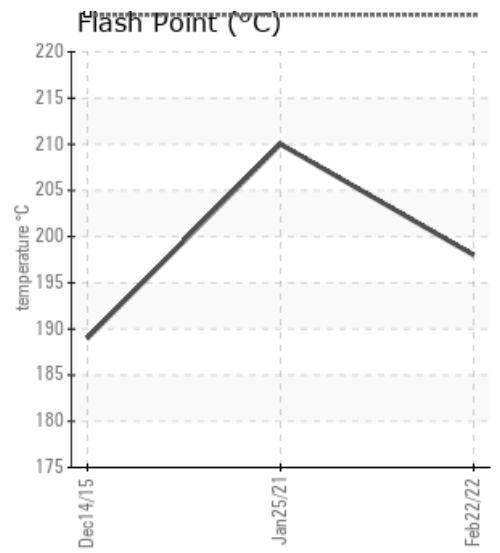
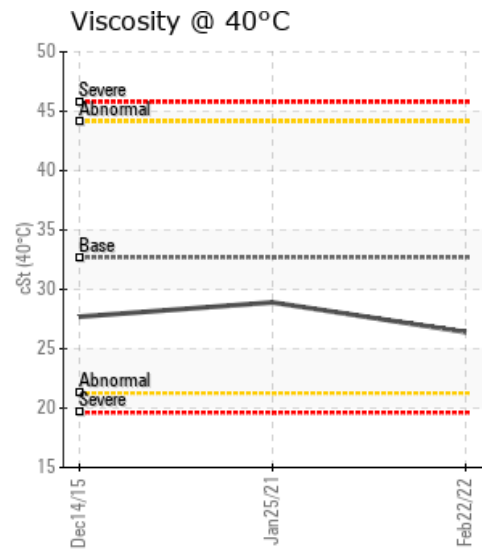
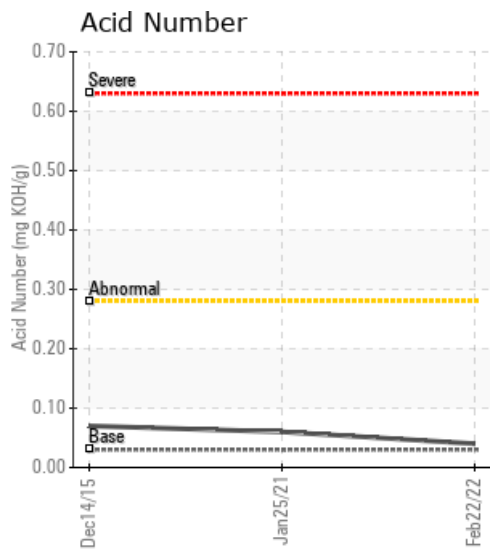
## HEAT TRANSFER FLUID

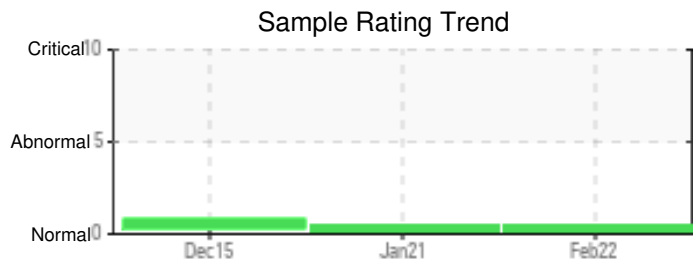
Customer: PTRHTF10167	System Information	Sample Information
Polartec Tennessee Manufacturing LL... 310 Industrial Dr. S. W Cleveland, TN 37311 USA Attn: Scott McMahan Tel: E-Mail: scott.mcmahan@milliken.com	System Volume: 2865 gal Bulk Operating Temp: 525F / 274C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: HEATEC	Lab No: 02475096 Analyst: Jake Finn Sample Date: 02/22/22 Received Date: 03/02/22 Completed: 03/09/22 Jake Finn jake.finn@hollyfrontier.com

Recommendation: Sample indicates no signs of wear, contamination or fluid degradation. This fluid is suitable for continued use, please resample and submit for testing in 12 months.

Comments: Light amount of sand/dirt noted by lab.

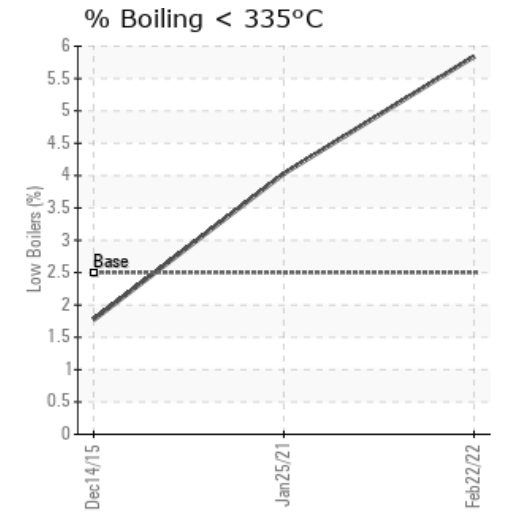
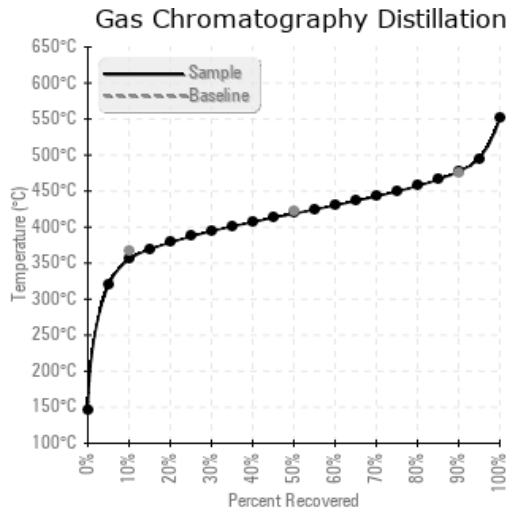
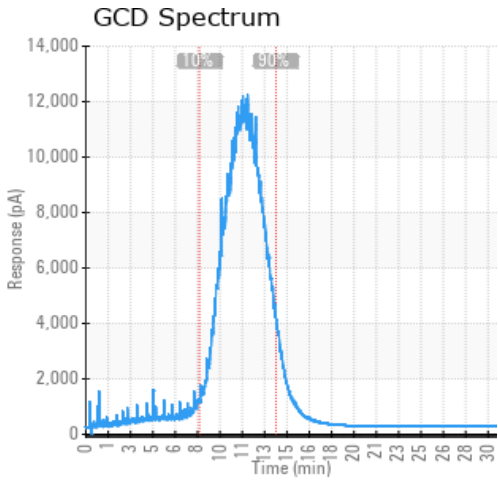
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/22/22	03/02/22	23.0y	Drain Valve	388 / 198	12.2	26.4	0.04	0.033	672 / 355	785 / 419	891 / 477	5.84
01/25/21	02/01/21	22.0y	Drain valve	410 / 210	9.6	28.9	0.06	0.065	683 / 361	788 / 420	893 / 479	4.03
12/14/15	12/17/15	18.0y	PUMP INLET	372 / 189	8.0	27.7	0.07	0.037	687 / 364	783 / 417	882 / 472	1.77
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc	
02/22/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	
01/25/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0
12/14/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0
<b>Baseline Data</b>			0	0						0			0	0					0					270	

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



### Historical Comments

01/25/21	Fluid appears to be in great condition with no signs of degradation or contamination. Please resubmit for annual testing in one year.N/A
12/14/15	Judging by the green flags, the oil condition is not so bad. Flash point is still strong enough for 525F operation, oxidation is minimal because of the nitrogen blanket. Overall the oil looks ok. However, if the oil life is truly 18 years as indicated, we would use the next shut down as an opportunity to replenish some of the additive reserve in the fluid by sweetening the system, i.e. replace a certain percentage (10% or 20%) of used oil with fresh Calflo. COC Flash Point is marginally low.

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