

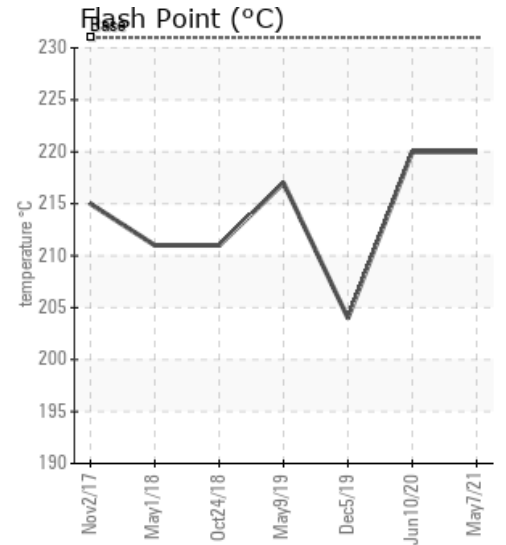
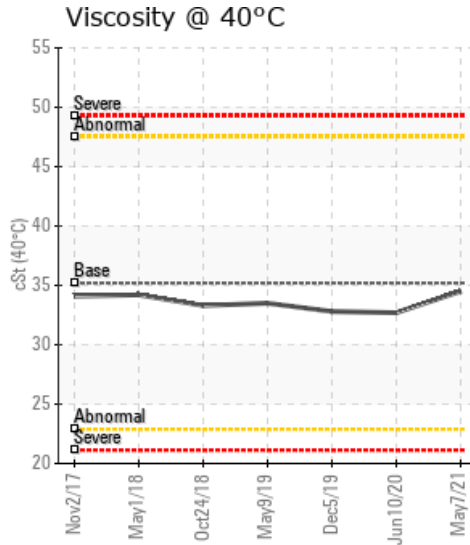
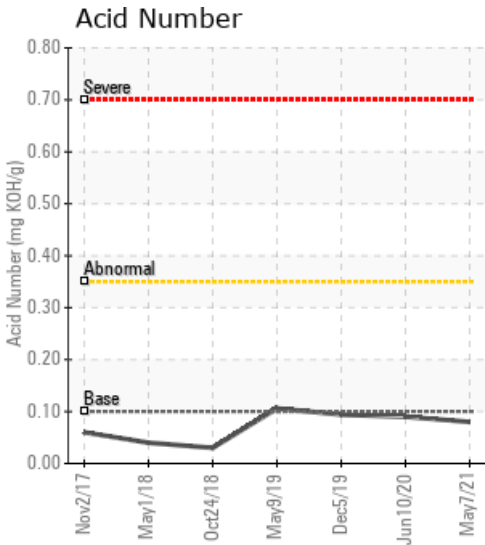
LN01 Laminator Hot Oil System

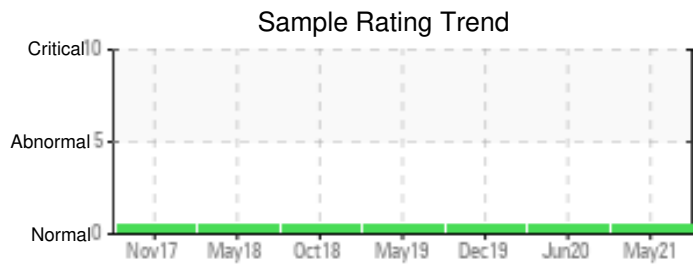
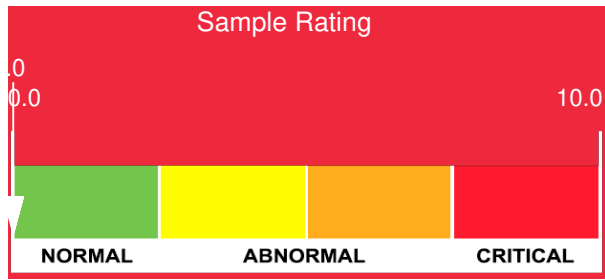
Customer: PTRHTF10141	System Information	Sample Information
TAMKO BUILDING PRODUCTS 2300 35TH ST TUSCALOOSA, AL 35401 USA Attn: Eric Foote Tel: x: E-Mail: eric_foote@tamko.com	System Volume: 110 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO HTF Make: Heat Exchanger And T	Lab No: 02421596 Analyst: Jake Finn Sample Date: 05/07/21 Received Date: 05/19/21 Completed: 05/20/21 Jake Finn jake.finn@hollyfrontier.com

Recommendation: Analysis indicates the current fluid is in great condition and is suitable for continued use. Please resample and submit for testing in one year.

Comments: N/A

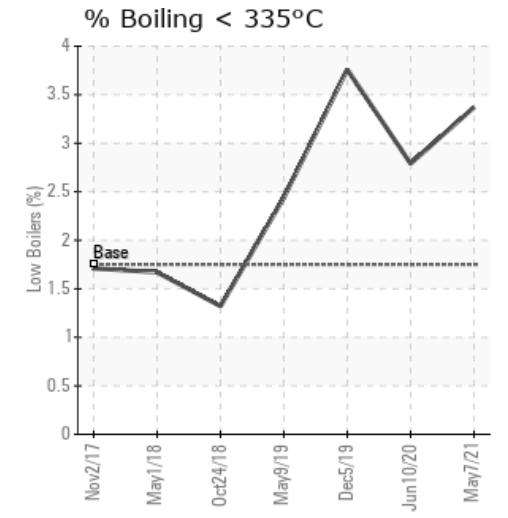
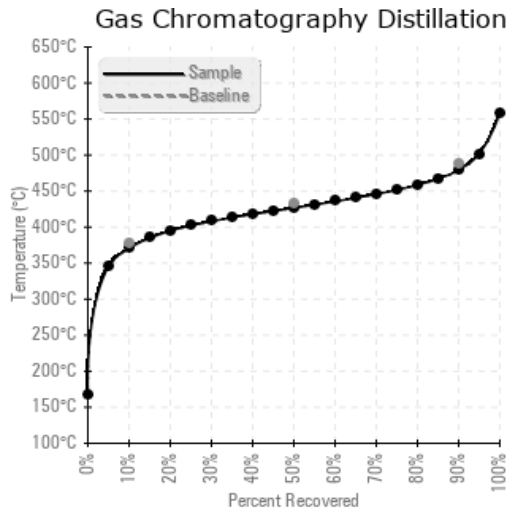
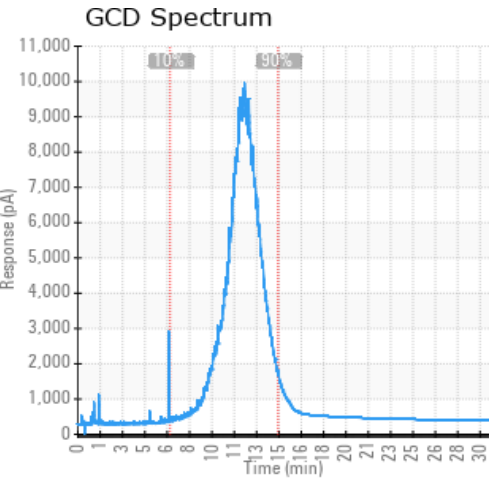
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/07/21	05/19/21	0.0y		428 / 220	24.0	34.5	0.08	0.043	699 / 371	800 / 427	894 / 479	3.37
06/10/20	06/29/20	0.0y		428 / 220	6.7	32.7	0.09	0.162	708 / 375	810 / 432	906 / 486	2.79
12/05/19	12/13/19	0.0y	PORT	399 / 204	35.7	32.8	0.094	0.052	691 / 366	804 / 429	914 / 490	3.76
05/09/19	05/17/19	2.0y	PORT	423 / 217	32.4	33.5	0.106	0.026	705 / 374	809 / 432	917 / 491	2.44
10/24/18	11/02/18	0.0y		412 / 211	24.0	33.3	0.03	0.037	694 / 368	793 / 423	883 / 473	1.32
Baseline Data				448 / 231		35.20	.1		712 / 378	810 / 432	910 / 488	1.75





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
05/07/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0
06/10/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0
12/05/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0
05/09/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0
10/24/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0
Baseline Data			0	0						0			0	0				0	0				280	

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



Historical Comments

06/10/20	Fluid is suitable for continued use. Please resubmit for testing in one year. Very light white metal and debris noted by lab. Consider checking system filters and changing them if necessary.
12/05/19	Oil is suitable for continued use. Remember to please include the time on oil when submitting oil samples for evaluation. Oil can be sent in for testing in one year. N/A
05/09/19	Oil is suitable for continued use. Please re-submit sample in 1 year. Acid number is normal, but has risen since the last sample, monitor at next test interval. Very light debris is noted by the lab.
10/24/18	Fluid is suitable for continued use. Please re-submit annual sample in October 2019. Please include time on the unit and time on the fluid on next sample entry.

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