

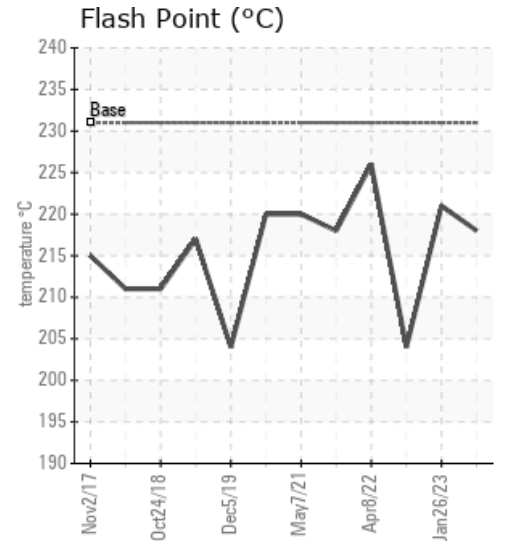
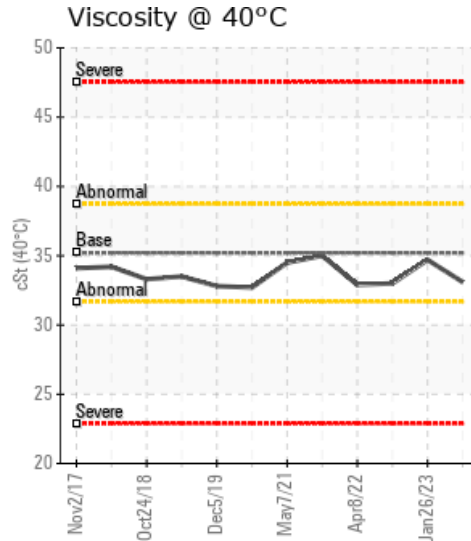
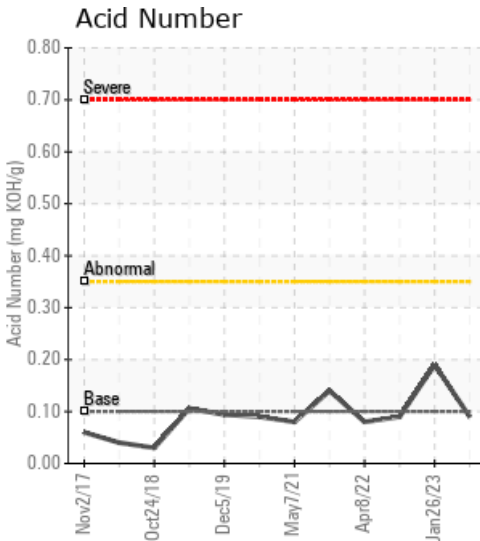
LN01 Laminator Hot Oil System

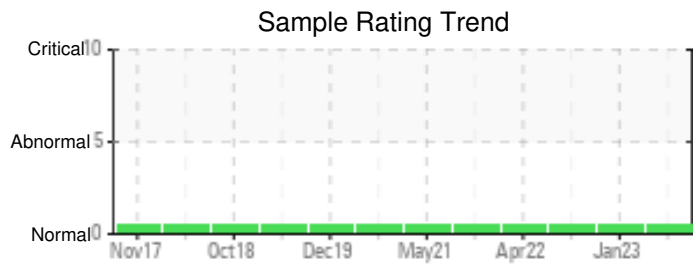
Customer: PTRHTF10141	System Information	Sample Information
TAMKO BUILDING PRODUCTS 2300 35TH ST TUSCALOOSA, AL 35401 USA Attn: Eric Foote Tel: x: E-Mail: eric_foote@tamko.com	System Volume: 110 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO HTF Make: Heat Exchanger And T	Lab No: 02549153 Analyst: Jake Finn Sample Date: 03/16/23 Received Date: 03/31/23 Completed: 04/10/23 Jake Finn jake.finn@HFSinclair.com

Recommendation: Sample indicates that the system fluid is in great condition and suitable for continued use. There are no signs of wear, contamination or fluid degradation from testing.

Comments: N/A

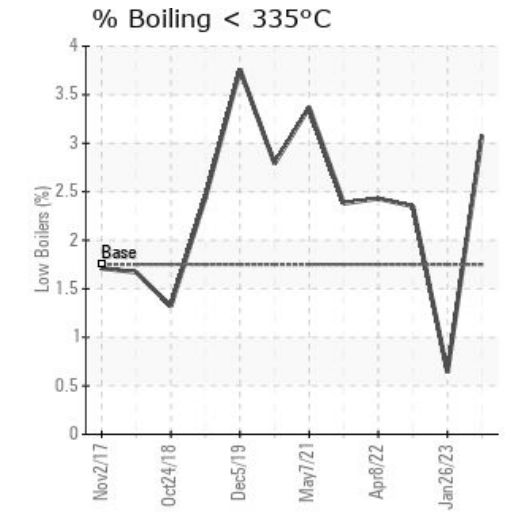
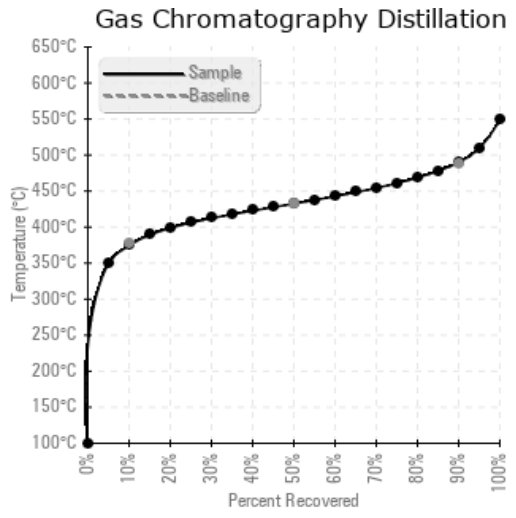
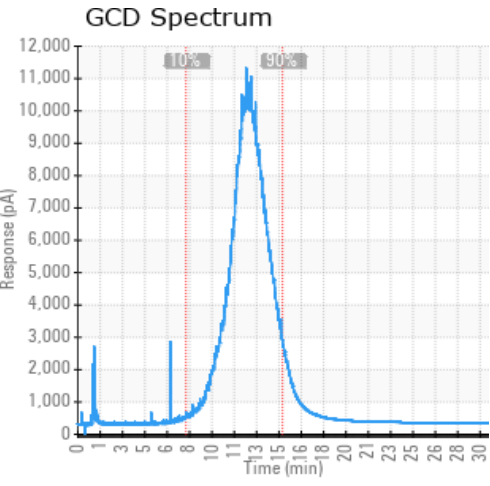
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/16/23	03/31/23	0.0y		424 / 218	13.6	33.1	0.09	0.050	706 / 374	811 / 433	914 / 490	3.08
01/26/23	02/09/23	0.0y		430 / 221	8.7	34.7	0.19	0.062	733 / 390	817 / 436	919 / 493	0.64
09/30/22	10/12/22	0.0y		399 / 204	2.7	33.0	0.09	0.128	714 / 379	813 / 434	913 / 490	2.35
04/08/22	04/21/22	0.0y		439 / 226	17.2	32.9	0.08	0.036	712 / 378	813 / 434	915 / 491	2.43
10/20/21	11/02/21	0.0y		424 / 218	17.4	35.0	0.14	0.046	720 / 382	813 / 434	918 / 492	2.38
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	
03/16/23	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0
01/26/23	8	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	3
09/30/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
04/08/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
10/20/21	5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	99	2
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	
01/26/23	Testing indicates this fluid is in great condition and suitable for continued use. No significant indicators of wear, contamination or fluid degradation at this point. Please resubmit for testing in 12 months (February 2024).N/A
09/30/22	Sample appears to be in great condition, no signs of component wear, fluid degradation or contamination. Slight rise in pentane insolubles compared to previous samples, but condition is still well within a safe range for now. We will monitor the levels at the next sampling interval. Fluid is otherwise suitable for continued use. Resample in 12 months.N/A
04/08/22	Sample indicates no significant wear, contamination or fluid degradation. This fluid is suitable for continued use, please resample and submit for testing in 12 months.N/A
10/20/21	Sample indicates the system fluid is in great condition, shows no sign of degradation or contamination at this time, and is suitable for continued use.N/A

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