

LN01 Laminator Hot Oil System

Customer: PTRHTF10141
 TAMKO BUILDING PRODUCTS
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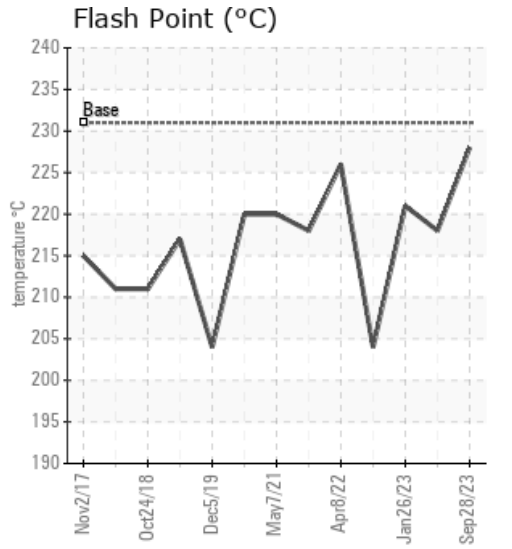
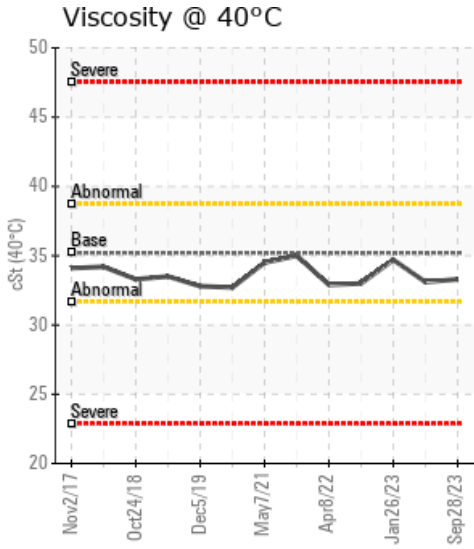
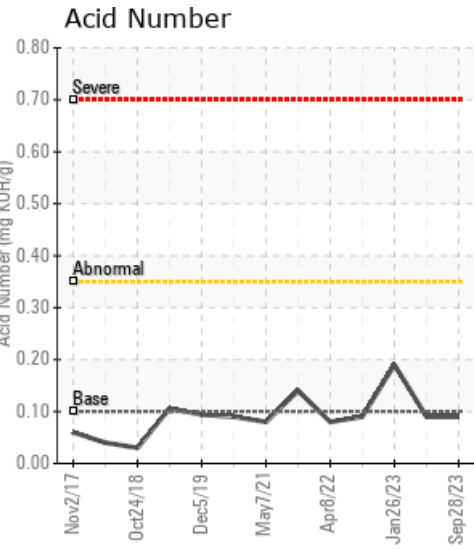
System Information
 System Volume: 110 gal
 Bulk Operating Temp: 350F / 177C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA CALFLO HTF
 Make: Heat Exchanger And T

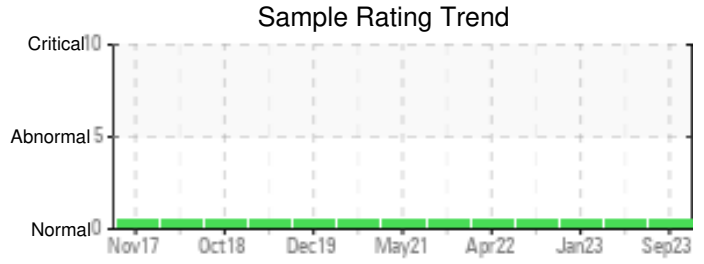
Sample Information
 Lab No: 02586956
 Analyst: Jake Finn
 Sample Date: 09/28/23
 Received Date: 10/04/23
 Completed: 10/06/23
 Jake Finn
 jake.finn@HFSinclair.com

Recommendation: Sample indicates that the system fluid is in great condition. No signs of component wear, contamination or fluid degradation. Resample for regular testing in 12 months

Comments: N/A

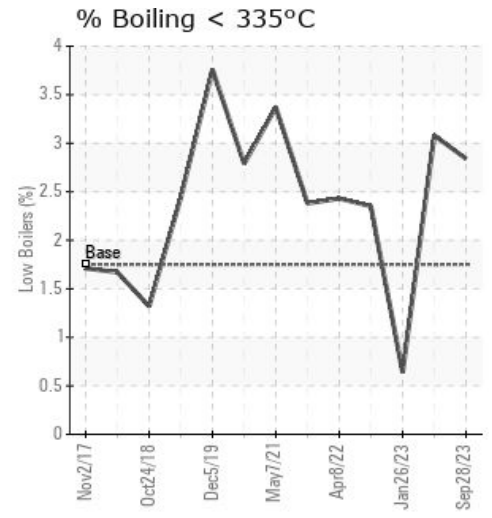
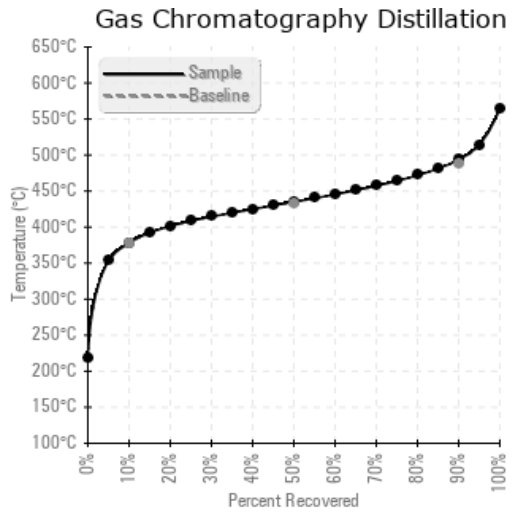
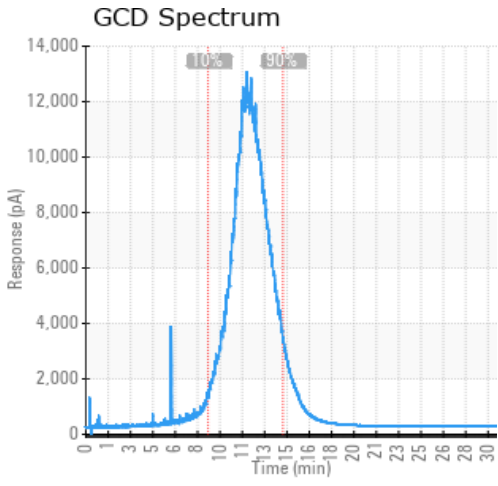
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
09/28/23	10/04/23	0.0y		442 / 228	41.4	33.3	0.09	0.037	712 / 378	815 / 435	920 / 494	2.84
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
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
09/28/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0
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	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	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	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	30	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	
03/16/23	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.N/A
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

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