

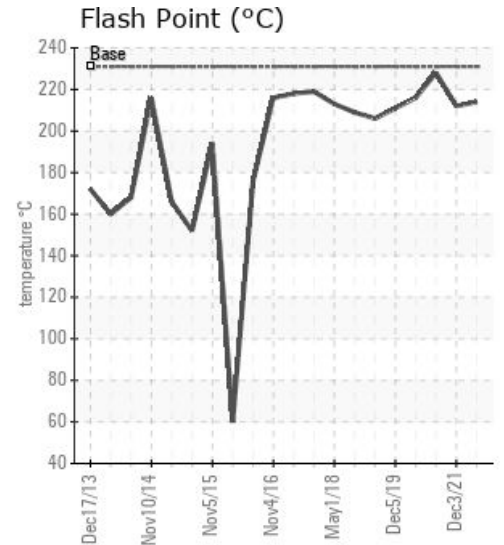
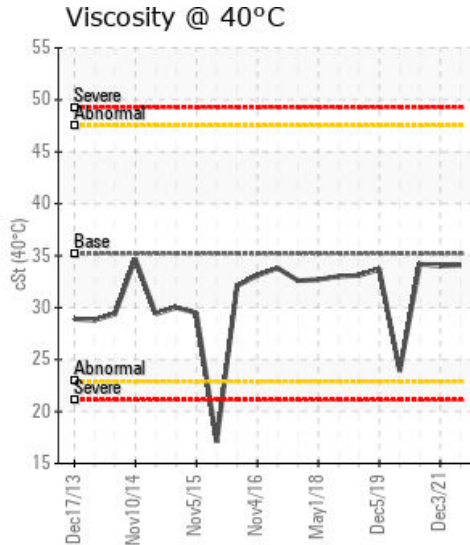
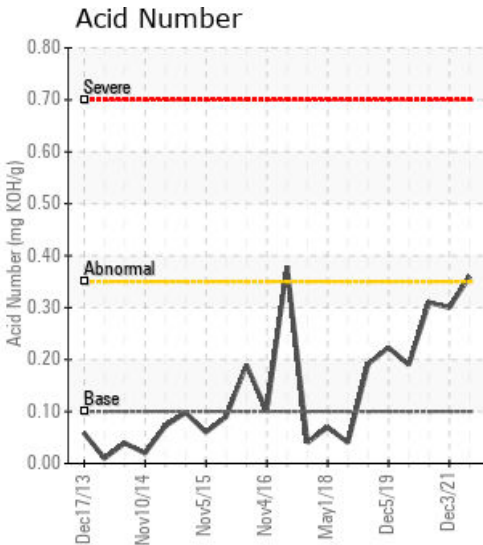
Laminate Storage/Delivery Hot Oil System

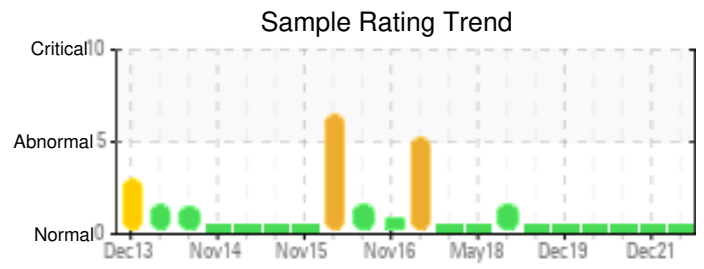
Customer: PTRHTF10141	System Information	Sample Information
TAMKO BUILDING PRODUCTS 2300 35TH ST TUSCALOOSA, AL 35401 USA Attn: Greg Colburn Tel: (205)752-3555 E-Mail: gregory_colburn@tamko.com	System Volume: 110 gal Bulk Operating Temp: 450F / 232C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO HTF Make: Hy-Way	Lab No: 02491691 Analyst: Jake Finn Sample Date: 05/20/22 Received Date: 05/31/22 Completed: 06/03/22 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: N/A

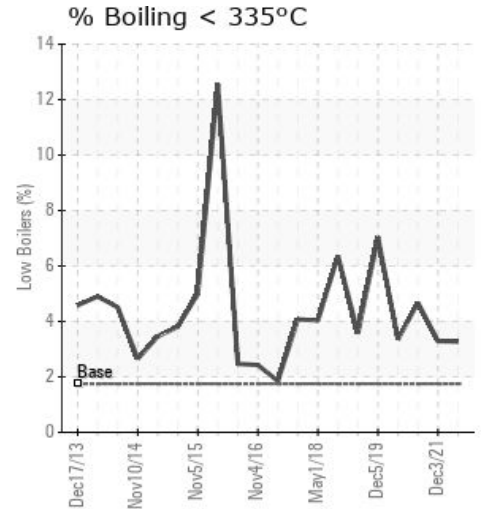
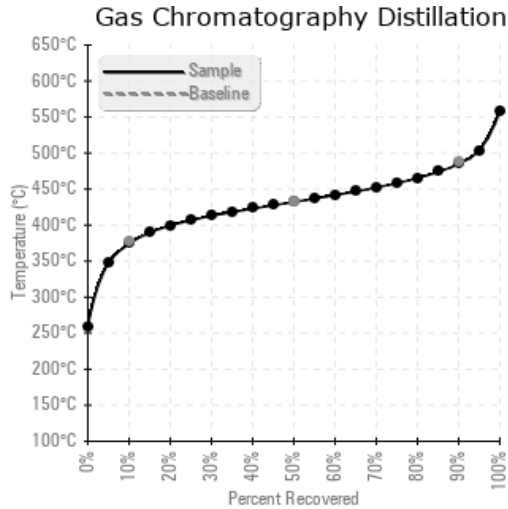
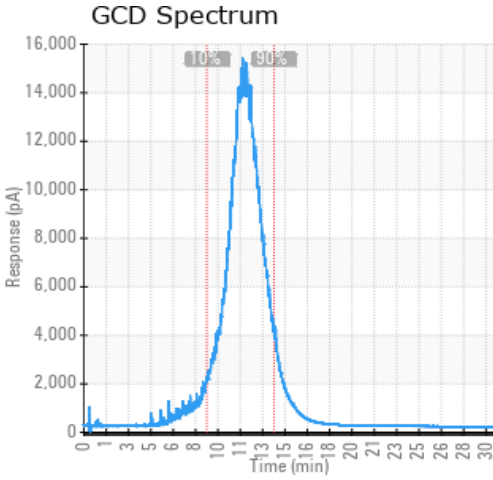
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/20/22	05/31/22	0.0m		417 / 214	27.1	34.1	0.36	0.153	705 / 374	810 / 432	905 / 485	3.27
12/03/21	12/13/21	0.0m		414 / 212	36.5	34.0	0.30	0.134	706 / 374	810 / 432	905 / 485	3.29
06/18/21	06/24/21	0.0m		442 / 228	39.8	34.2	0.31	0.103	686 / 363	795 / 424	905 / 485	4.67
06/10/20	06/29/20	0.0m		421 / 216	13.2	23.9	0.19	0.277	706 / 374	811 / 433	904 / 484	3.36
12/05/19	12/13/19	0.0m	PORT	412 / 211	27.3	33.7	0.223	0.110	662 / 350	788 / 420	904 / 485	7.03
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
05/20/22	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	62	0
12/03/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0
06/18/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	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	58	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	58	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

12/03/21	Sample is in good condition and indicates oil is suitable for continued use. Please resubmit for testing in one year.N/A
06/18/21	Results indicate that this system and fluid are in good condition, and the fluid is suitable for continued use. Please resubmit sample in 12 months for testing.N/A
06/10/20	Fluid is suitable for continued use. Please resubmit for testing in one year.Very light white metal, silt 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

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