

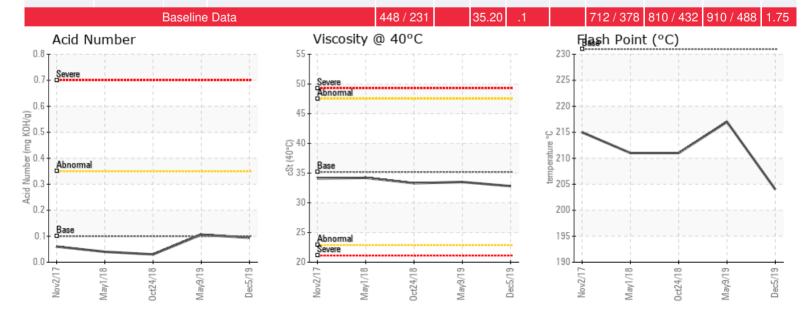
LN01 Laminator Hot Oil System

Customer: PTRHTF10141	System Information	Sample Information
TAMKO BUILDING PRODUCTS	System Volume: 110 gal	Lab No: 02326906
2300 35TH ST	Bulk Operating Temp: 350F / 177C	Analyst: Jake Finn
TUSCALOOSA, AL 35401 USA	Heating Source:	Sample Date: 12/05/19
Attn: Greg Colburn	Blanket:	Received Date: 12/13/19
Tel: (205)752-3555	Fluid: PETRO CANADA CALFLO HTF	Completed: 12/24/19
E-Mail: gregory_colburn@tamko.com	Make: Heat Exchanger And T	

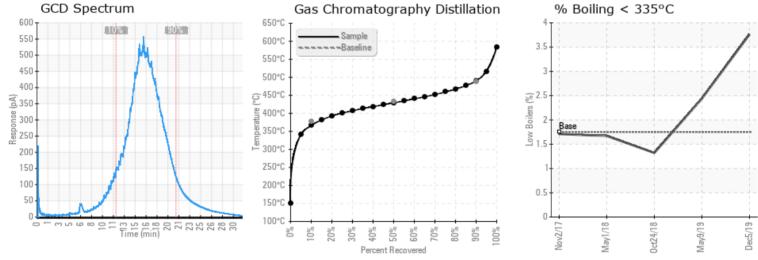
Recommendation: Oil is suitable for continued use. Remember to please include the time on oil when submitting oil samples for evaluation. Oil can be sent in for testing in one year.

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	%
12/05/19	12/13/19	Oy	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	2у	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	0y		412 / 211	24.0	33.3	0.03	0.037	694 / 368	793 / 423	883 / 473	1.32
05/01/18	05/09/18	2у	PORT	412 / 211	7.5	34.2	0.04	0.019	710 / 376	809 / 432	902 / 484	1.67
11/02/17	11/13/17	10y		419 / 215	14.4	34.1	0.06	0.036	708 / 375	804 / 429	898 / 481	1.71







Historical Comments

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.
05/01/18	Fluid is suitable for continued use. Please submit sample on May 1, 2019All parameters of the fluid look above satisfactory. There is some light visible debris that may be filtered out safely during any future shutdowns.
11/02/17	Oil is suitable for continued use. Please re-submit sample in 1-year for analysisLow Wear Metals and Contamination levels; 14.4 ppm water (Low); Acid number is low; 34.1 CsT @40oC Viscosity; COC Flash Point is 215oC - Excellent; Very Light Debris visible

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