

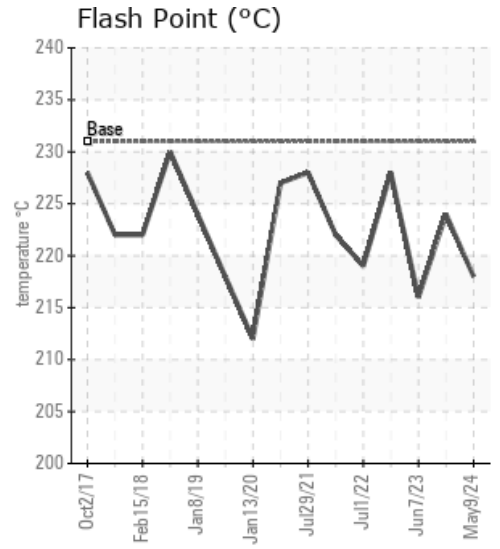
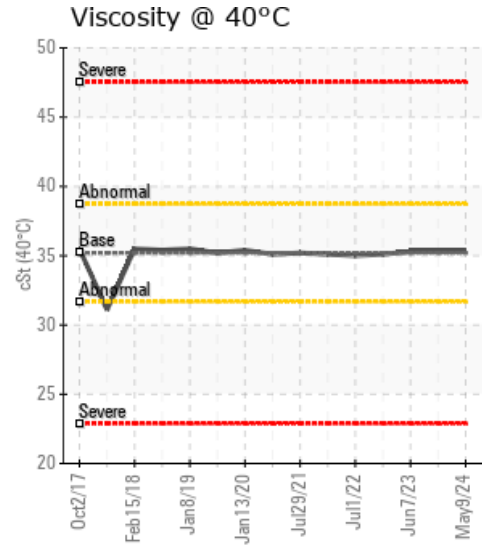
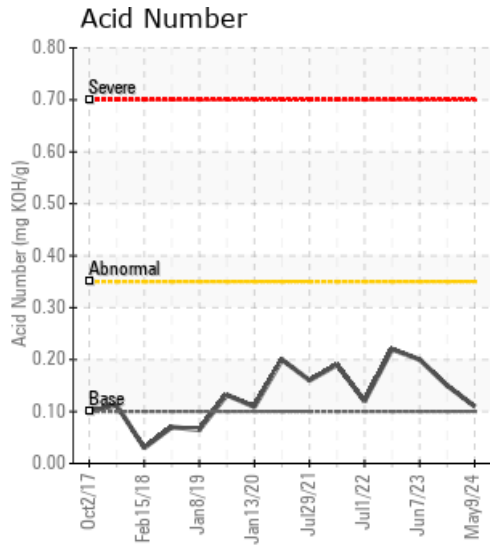
RM07 Sealdown Loop Hot Oil System

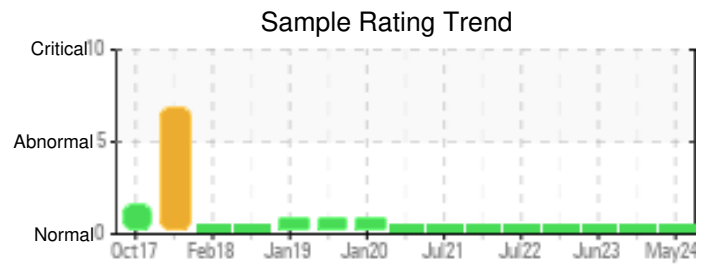
Customer: PTRHTF10141	System Information	Sample Information
TAMKO BUILDING PRODUCTS 2300 35TH ST TUSCALOOSA, AL 35401 US Attn: Eric Foote Tel: x: E-Mail: eric_foote@tamko.com	System Volume: 110 gal Bulk Operating Temp: 430F / 221C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO HTF Make: Heat Exchanger And T	Lab No: 02636809 Analyst: Jake Finn Sample Date: 05/09/24 Received Date: 05/21/24 Completed: 05/30/24 Jake Finn jake.finn@HFSinclair.com

Recommendation: Results indicate that the fluid is in great condition and suitable for continued use. No signs of wear particles, contamination or fluid degradation are present. Continue with regular monitoring at next sample interval.

Comments:

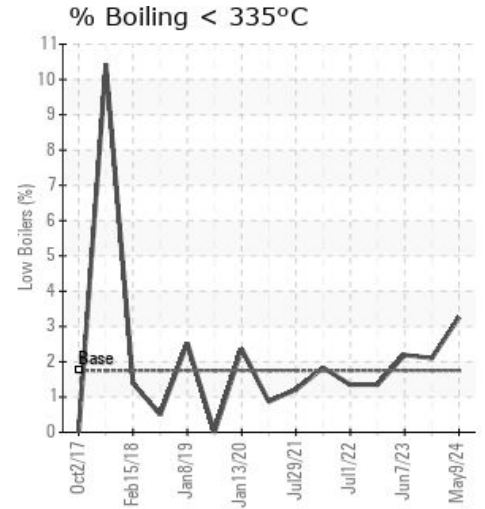
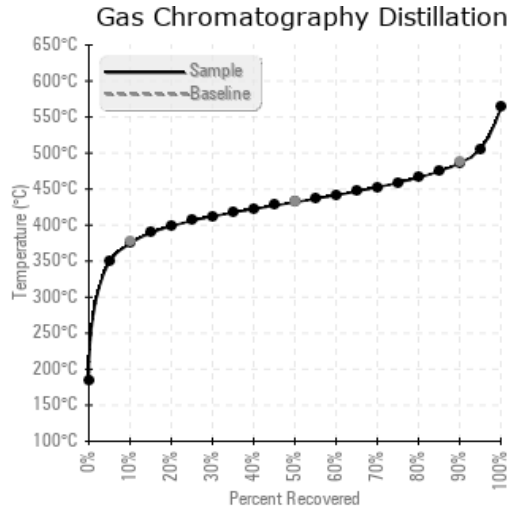
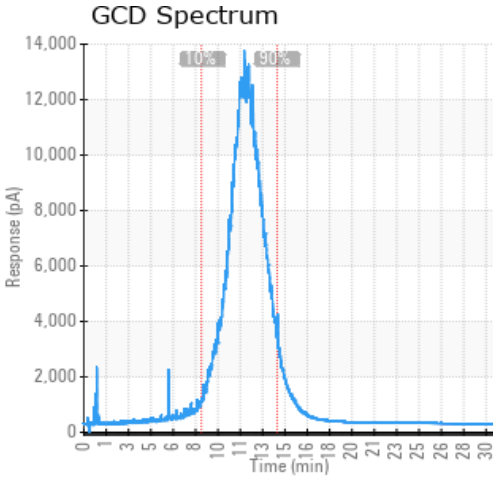
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/09/24	05/21/24	0.0m		424 / 218	24	35.4	0.11	0.062	706 / 374	809 / 432	907 / 486	3.26
11/30/23	12/14/23	0.0m		435 / 224	36	35.3	0.15	0.050	714 / 379	815 / 435	916 / 491	2.10
06/07/23	06/20/23	0.0m		421 / 216	17.9	35.3	0.20	0.092	698 / 370	794 / 423	913 / 489	2.19
12/15/22	12/29/22	0.0m		442 / 228	0.00	35.1	0.22	0.047	723 / 384	814 / 435	911 / 488	1.35
07/01/22	07/21/22	0.0m		426 / 219	5.7	35.0	0.12	0.053	719 / 382	811 / 433	906 / 486	1.35
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	
05/09/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	0	
11/30/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	0
06/07/23	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	0
12/15/22	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	0
07/01/22	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	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	
11/30/23	Sample indicates that the system fluid is in great condition and is suitable for continued use. There are no signs of component wear, contamination or fluid degradation at this time. Please resubmit for testing in 12 months.N/A
06/07/23	Overall test results for this sample look very good and indicate no signs of component wear, contamination or fluid degradation areN/A
12/15/22	Sample does not show any signs of wear metals, contamination or fluid degradation, indicating the fluid is in great condition and suitable for continued use. Please submit a sample for testing in 12 months.N/A
07/01/22	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.N/A

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