

# FH1 JACKET

**Customer: PTRHTF10140**  
 PABCO ROOFING PRODUCTS  
 1718 THORNE RD  
 TACOMA, WA 98421-3207 US  
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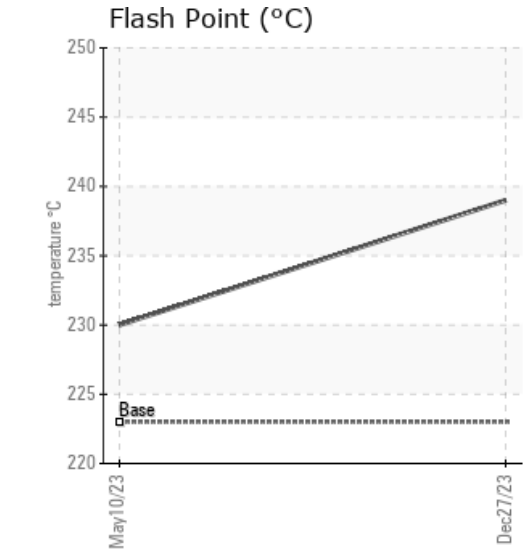
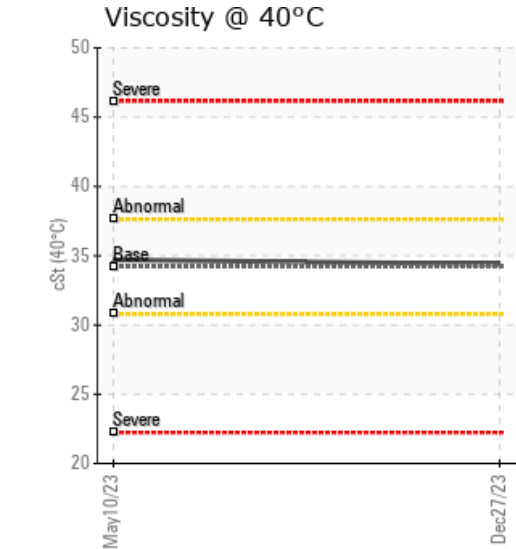
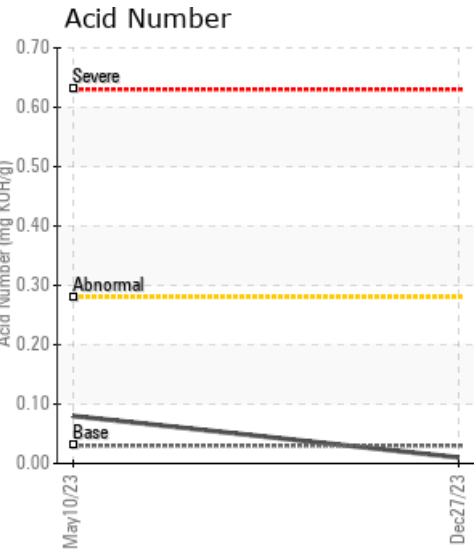
**System Information**  
 System Volume: 1800 g  
 Bulk Operating Temp: 500F / 260C  
 Heating Source:  
 Blanket:  
 Fluid: PETRO CANADA PETRO-THERM  
 Make: HEATEC

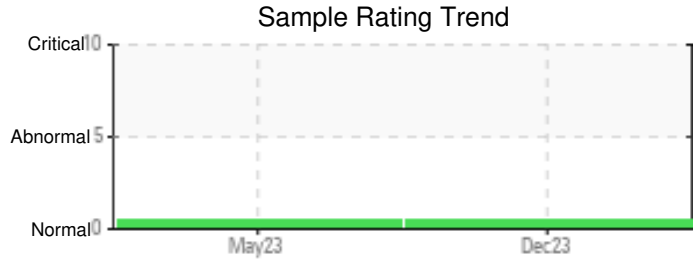
**Sample Information**  
 Lab No: 02607633  
 Analyst: Ron LeBlanc  
 Sample Date: 12/27/23  
 Received Date: 01/09/24  
 Completed: 01/18/24  
 Ron LeBlanc  
 Ronald.LeBlancSr@HFSinclair.com

Recommendation: The sample results are acceptable with no alarms showing up. The Pentane insolubles have dropped significantly over the last 3 samples. Re-Sample in 6 months.

Comments:

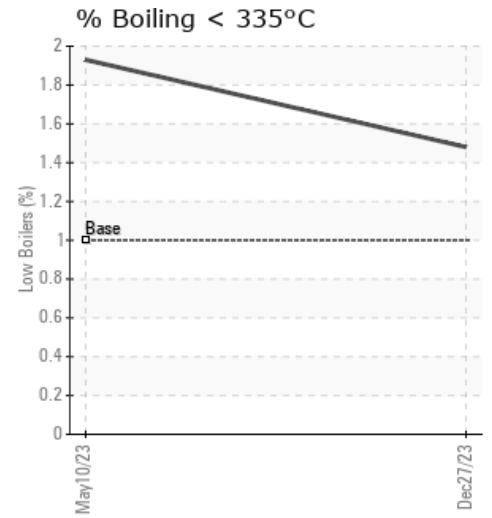
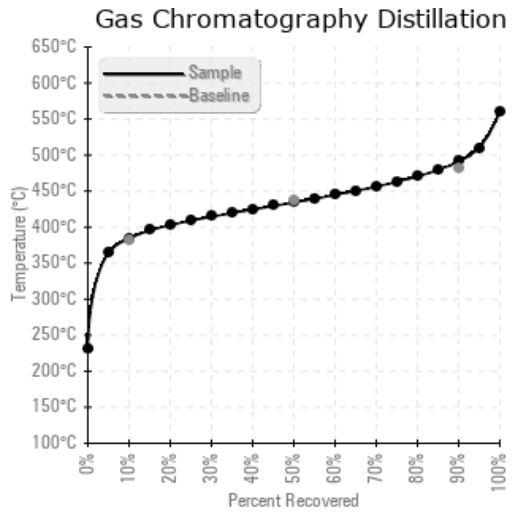
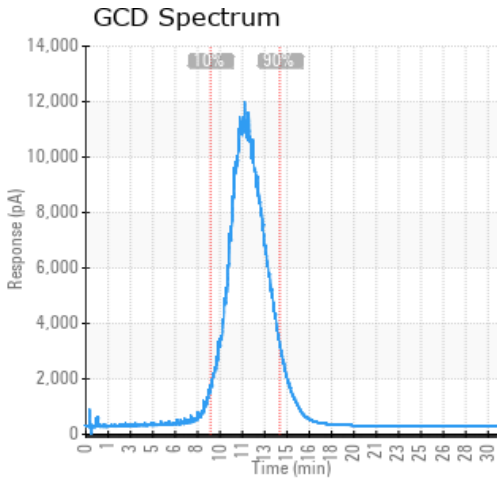
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/27/23	01/09/24	19.0w		462 / 239	54	34.4	0.01	0.053	723 / 384	814 / 434	916 / 491	1.48
05/10/23	05/24/23	52.0w		446 / 230	25.9	34.7	0.08	0.028	721 / 383	812 / 434	913 / 490	1.93
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
12/27/23	7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/10/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0		0	0					0				0		

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



### Historical Comments

05/10/23	Sample is within acceptable limits. Initial boiling point is low. Resample in 3 months.

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