

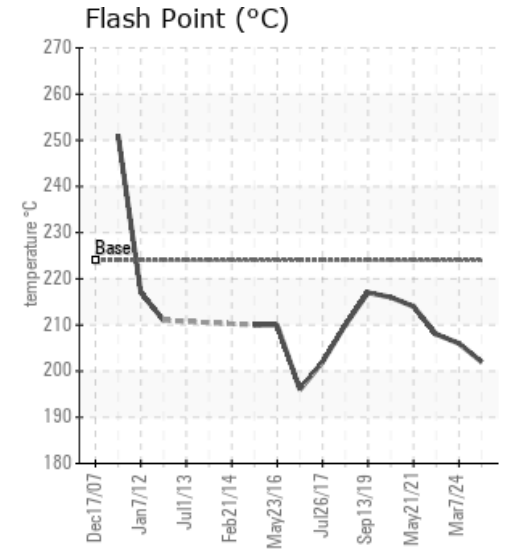
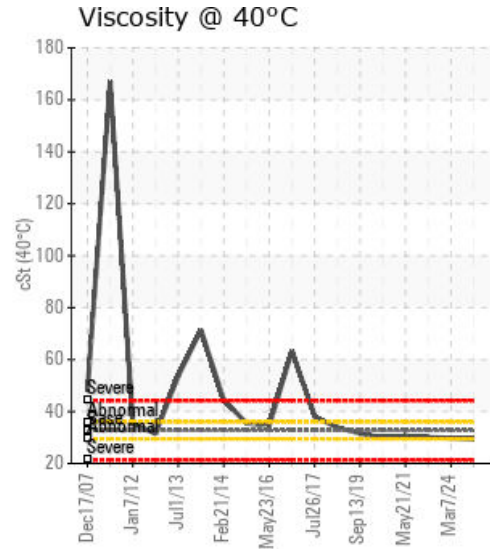
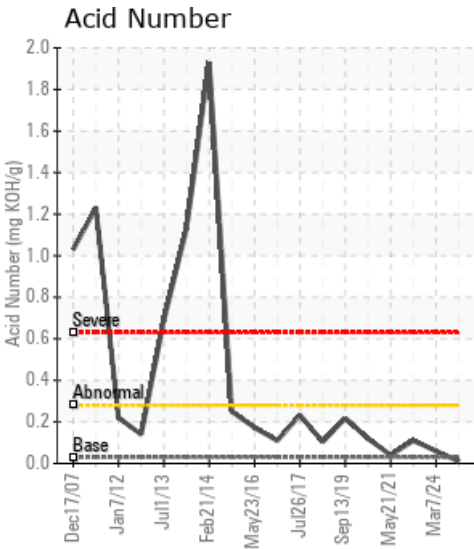
## FRONT END/SMALL

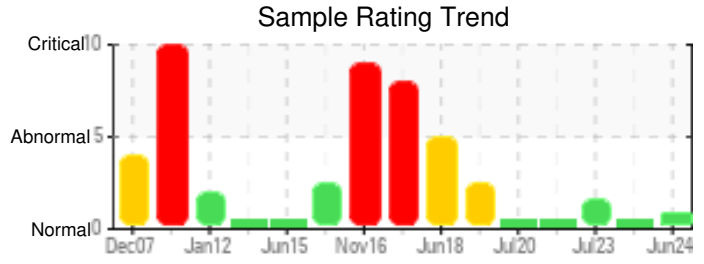
Customer: PTRHTF10037	System Information	Sample Information
CERTAINTED ROOFING 200 SIERRA DR PEACHTREE CITY, GA 30269 US Attn: John Panuski Tel: E-Mail: john.panuski@saint-gobain.com	System Volume: 400 gal Bulk Operating Temp: 450F / 232C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: HEATEC	Lab No: 02644446 Analyst: Manny Garcia Sample Date: 06/21/24 Received Date: 06/27/24 Completed: 07/16/24 Manny Garcia manuel.garcia@HFSinclair.com

Recommendation: This fluid sample is suitable for continued use & we recommend submitting the annual sample in June 2025.

Comments: (GCD) 90% Distillation Point is slightly higher than anticipated; venting this system could assist in mitigating this value back into normal range. All other parameters are within satisfactory values.

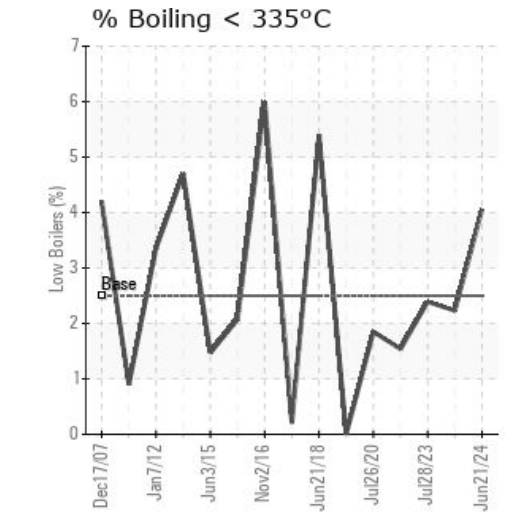
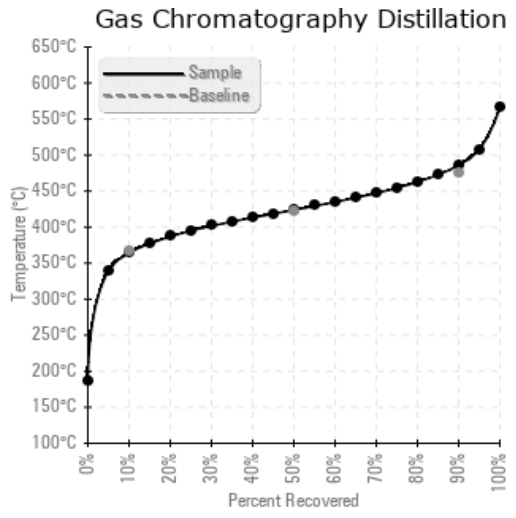
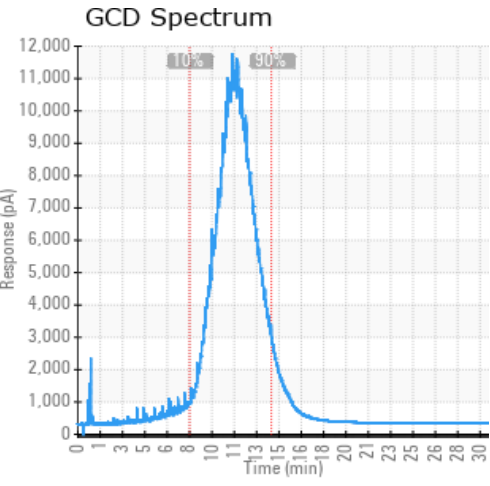
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/21/24	06/27/24	0.0y	MAIN PUMP	396 / 202	12	29.4	0.01	0.074	688 / 364	795 / 424	907 / 486	4.06
03/07/24	03/26/24	0.0y	MAIN SUPPLY PUMP	403 / 206	35	29.8	0.06	0.091	698 / 370	796 / 424	901 / 483	2.23
07/28/23	08/04/23	0.0y	main supply pump	406 / 208	23.3	30.1	0.11	0.579	698 / 370	797 / 425	905 / 485	2.39
05/21/21	06/08/21	4.0y	Laminate coil loop	417 / 214	25.6	30.6	0.04	0.047	694 / 368	784 / 418	897 / 481	1.54
07/26/20	08/13/20	4.0y	MAIN PUMP	421 / 216	30.9	29.9	0.12	0.101	701 / 372	798 / 425	904 / 484	1.85
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
06/21/24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	33	0
03/07/24	10	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	10	0	37	0
07/28/23	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	6	0	45	1
05/21/21	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	10	0	51	0
07/26/20	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	19	0	57	0
Baseline Data			0	0						0			0	0					0				270	

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



Historical Comments	
03/07/24	Sample looks Satisfactory. Please re-submit sample in March 2025 to confirm fluid integrity. Pentane insolubles have dropped considerably from .5979 to .091 since the last sample submitted on 7/28/23.
07/28/23	Please re-submit sample if any maintenance work is completed to reduce the levels of pentane insolubles, otherwise next sample should be submitted in July 2024. Pentane insolubles are severely high in this oil sample. All other parameters are in satisfactory condition. This unit had pentane insoluble issues in 2017-'18 and moderate conditions in '19. Besides these high levels of insolubles the oil looks satisfactory.
05/21/21	Sample is Suitable for continued use. Please continue operation and re-submit sample in June 2022. Very light debris was detected in the fluid sample. Please change any system filters. Moreover, the fluid 'may' be safely filtered during a down day with a portable filter cart to mitigate the visible debris.
07/26/20	This system once suffered contamination from cleaners/degreasers stored in the same storage system as the fresh oil, as identified by our Sr Tech Manny Garcia some years ago. The signs of contamination are almost completely gone. The fluid appears to be in good condition at this time, no action required.

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