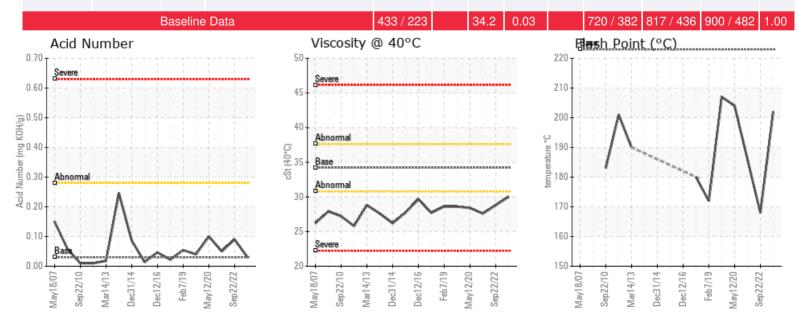


Customer: PTRHTF10094 System Information Sample Information **CERTAINTEED CORPORATION -**System Volume: 375 gal Lab No: 02533278 **OXFORD** Bulk Operating Temp: 519F / 271C Analyst: Manny Garcia 200 CERTAINTEED RD Heating Source: Sample Date: 01/04/23 OXFORD, NC 27565 USA Blanket: Received Date: 01/13/23 Fluid: PETRO CANADA PETRO-THERM Attn: Seth Newton Completed: 01/17/23 Make: Tel: (919)693-1141 Manny Garcia E-Mail: Seth.newton@saint-gobain.com manuel.garcia@HFSinclair.com

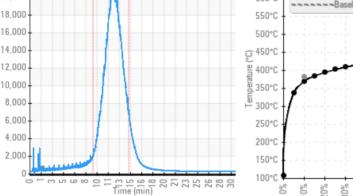
Recommendation: This Fluid system is in 'satisfactory' condition & the next annual sample should be taken and submitted by January 4th, 2024.

Comments: The COC Flash Point was marginally low on the last sample taken on 9/22/22 & recommendations were made to mitigate this issue by 'venting' the system. Whatever maintenance practices were completed in the 4th quarter 2022, worked well as the COC Flash Point improved to 2020C and is 'satisfactory'. The other fluid parameters are in satisfactory conditions also.

| 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 | % |
| 01/04/23 | 01/13/23 | 0.0m | | 396 / 202 | 0.00 | 30.0 | 0.03 | 0.027 | 697 / 370 | 806 / 430 | 908 / 487 | 4.44 |
| 09/22/22 | 10/12/22 | 12.0m | AFTER HEATER | 334 / 168 | 5.9 | 28.8 | 0.09 | 0.104 | 693 / 367 | 802 / 428 | 904 / 485 | 4.50 |
| 10/01/21 | 10/18/21 | 0.0m | by supply pump | 367 / 186 | 23.1 | 27.6 | 0.05 | 0.033 | 689 / 365 | 799 / 426 | 902 / 483 | 4.79 |
| 05/12/20 | 07/06/20 | 5.0m | | 399 / 204 | 11.6 | 28.4 | 0.10 | 0.159 | 688 / 365 | 799 / 426 | 902 / 483 | 4.95 |
| 04/10/19 | 04/22/19 | 48.0m | HEATER | 405 / 207 | 3.7 | 28.6 | 0.040 | 0.049 | 687 / 364 | 795 / 424 | 904 / 485 | 4.09 |







Response (pA)

40%

60% Percent Recovered 6

Low Boilers (%)

2

2

n

May18/07

Mar9/12

May3/18

Apr10/19

Oct1/21

Jan4/23



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