

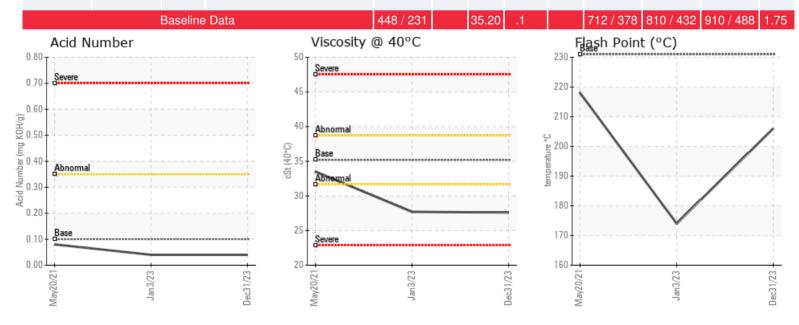
LINE 2

| Customer: PTRHTF10164 | System Information | Sample Information | | | |
|----------------------------------|----------------------------------|-----------------------------|--|--|--|
| Malarkey Roofing | System Volume: 3500 gal | Lab No: 02608652 | | | |
| 3400 S. Council Rd | Bulk Operating Temp: 565F / 296C | Analyst: Garrett Bapp | | | |
| OKLAHOMA CITY, OK 73179 US | Heating Source: | Sample Date: 12/31/23 | | | |
| Attn: Hunter Lewis | Blanket: | Received Date: 01/12/24 | | | |
| Tel: (405)261-6900 | Fluid: PETRO CANADA CALFLO HTF | Completed: 01/18/24 | | | |
| E-Mail: hunter.lewis1@holcim.com | Make: AMERICAN HEATING | Garrett Bapp | | | |
| - | | Garrett.Bapp@HFSinclair.com | | | |

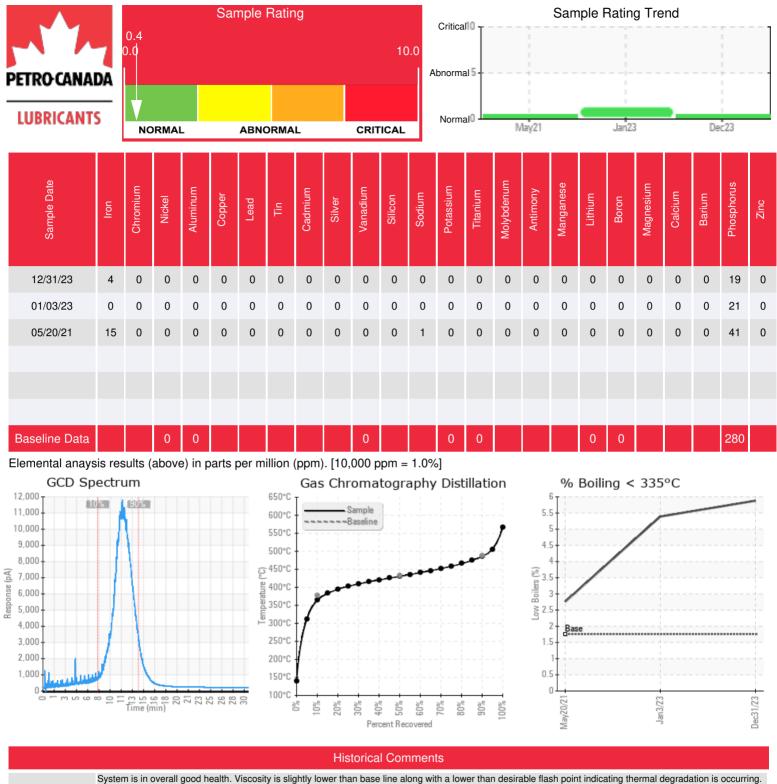
Recommendation: Sample has improved since the January 2023 sample. Viscosity still remain lower than new product but all other parameters are within spec. Flash Point has vastly come up and is in safe range. GCD profile shows low boilers. Recommend to vent light ends from the system at this time and continue routine sampling.

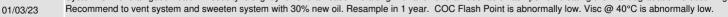
Comments: Visc @ 40°C is abnormally low.

| 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 | % |
| 12/31/23 | 01/12/24 | 2.0y | | 403 / 206 | 9 | 27.6 | 0.04 | 0.047 | 686 / 364 | 807 / 430 | 906 / 486 | 5.88 |
| 01/03/23 | 02/23/23 | 16.0y | before pump | 345 / 174 | 0.00 | 27.7 | 0.04 | 0.110 | 694 / 368 | 809 / 432 | 907 / 486 | 5.39 |
| 05/20/21 | 05/28/21 | 1.0y | | 424 / 218 | 14.7 | 33.5 | 0.08 | 0.130 | 704 / 373 | 797 / 425 | 924 / 495 | 2.76 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |



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No recommendations. New system and new fluid. Reference point.

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