



## CCI THERMAL

| Customer: PTRHTF30113  | System Information  | Sample Information   |
|--|---|--|
| WOODLAND BIOFUELS<br>1086 MODELAND RD<br>SARNIA, ON N7S 6L2 Canada<br>Attn: Jim Power<br>Tel: (519)337-5398<br>E-Mail: jpower@woodlandbiofuels.com | System Volume: 100 ltr<br>Bulk Operating Temp: 392F / 200C<br>Heating Source:<br>Blanket:<br>Fluid: PETRO CANADA CALFLO LT<br>Make: | Lab No: 02216281<br>Analyst: Lynn Billings<br>Sample Date: 05/11/18<br>Received Date: 05/15/18<br>Completed: 05/23/18<br>To discuss this report contact Lynn Billings at (289)523-0262 |

Recommendation: %GCD and the 90% GCD are marginally high as mentioned. Will need to do comparison when I refer back to the previous test results on this system. The peak from other product submitted does fall within the extra peak from before.

Comments: (GCD) % < 335°C is marginally high. (GCD) 90% Distillation Point is marginally high.

| 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     | %             |
| 05/11/18      | 05/15/18      | 2w        | R30             | 352 / 178         | 2.4        | 7.5              | 0.036       | 0.002  | 603 / 317 | 652 / 344 | 755 / 402 | 42.01         |
| Baseline Data |               |           |                 | 349 / 176         |            | 7.52             | 0.1         |        | 604 / 318 | 640 / 338 | 734 / 390 | 35.0          |



