What is claimed is:

1. A method for preparing liquid fuel products, comprising: co-processing a plurality of reactants in a catalytic cracker, said plurality of reactants comprising:

i) 93-99.95 vol.% of a petroleum fraction; and

ii) 0.05-7 vol.% of a biocrude oil;

wherein the biocrude oil product is prepared from non-catalytic rapid thermal processing of one of one or more cellulosic biomass;

wherein one or more component additives are added to the biocrude oil obtained from the rapid thermal process;

wherein the one or more component additives comprises alcohol, wherein at least 75 vol.% of the alcohol additive comprises one or more primary and/or secondary alcohol with a molecular weight of less than 100 g/mole; and

wherein the component additive comprises 2-12 wt.% ethanol, relative to the weight of the biocrude oil.

2. The method of claim 1, wherein the biocrude oil further comprises a vegetable oil.

3. The method of claim 2, wherein the vegetable oil comprises 2-20 wt.% of the biocrude oil.

4. The method of claim 1, wherein the component additives are added to the biocrude oil within 10 days of production of the biocrude oil.

5. The method of claim 1, wherein the alcohol has a viscosity of less than 2 cP at a temperature of 27 °C.

6. The method of claim 1, wherein:

i) the petroleum fraction comprises a vacuum gas oil; and

ii) the plurality of reactants comprise 0.05-2 vol.% of the biocrude oil.

7. The method of claim 1, wherein each liter (gallon) of biocrude oil produces at least 26498 liters (70 gallons) of the liquid fuel products, said fuel products comprising:

i) a motor gas having a boiling point up to 221.1°C (430 °F);

ii) a light cycle oil having a boiling point up in the range of 221.1-343.3°C(430-650 °F); and

iii) a distillate oil having a boiling point greater than 343.3°C(650 °F).

8. The method of claim 7, wherein the method provides:

i) at least 151.4 liters (40 gallons) of the motor gas;

ii) at least 75.7 liters (20 gallons) of the light cycle oil; and

iii) at least 37.9 liters (10 gallons) of the distillate oil;

based on each liter (gallon) of biocrude oil.

9. The method of claim 1, further comprising mixing at least a first portion of a first of the one or more component additives to the biocrude oil within 10 days, 8 days, 6 days, 4 days, 2 days, 1 day, 12 hours, 8 hours, 4 hours or 1 hour of production of the biocrude oil.

10. The method of claim 1, wherein

(i) at least a portion of the one or more component additives is added to the biocrude oil within 1 day of being formed, or

(ii) wherein the biocrude oil is co-processed within 2 weeks following addition of at least a portion of the one or more component additives.

11. The method of claim 1, wherein the biocrude oil is a liquid product of non-catalytic rapid thermal processing, wherein

(a) the non-catalytic rapid thermal processing comprises: contacting the biocrude oil product with a chelating agent, or

(b) the non-catalytic rapid thermal processing comprises: pretreating the cellulosic biomass with a water wash.

12. The method of claim 1, wherein the cellulosic biomass has a holocellulose content in the range of 25-99 wt.%.