CLAIMS

1. A fuel or fuel blending composition comprising

- 20 vol% or more of a resid-containing fraction having a T90 distillation point of 550ºC or more as measured according to ASTM D7169; and
- 5 vol% to 80 vol% of one or more fatty acid alkyl esters, the one or more fatty acid alkyl esters comprising a BMCI of 50 or less and a S_{BN} of 55 or more, wherein S_{BN} is calculated from the S-value and S_a as determined according to ASTM D7157.

2. The fuel or fuel blending composition of claim 1, wherein the resid-containing fraction comprises a BMCI – TE difference value of 50 or less, or wherein the fuel composition comprises a BMCI – TE difference value of 15 or less, or a combination thereof.

3. The fuel or fuel blending composition of claims 1-2, wherein the fuel composition comprises 20 vol% or more of the one or more fatty acid alkyl esters.

4. The fuel or fuel blending composition of claims 1-3, wherein the S_{BN} of the one or more fatty acid alkyl esters is greater than a S_{BN} of the resid-containing fraction, or wherein the one or more fatty acid alkyl esters comprise one or more fatty acid methyl esters, or a combination thereof, wherein S_{BN} is calculated from the S-value and S_a as determined according to ASTM D7157.

5. The fuel or fuel blending composition of claims 1-4, wherein the fuel or fuel blending composition comprises 10 vol% or more of the one or more fatty acid alkyl esters, or a combination thereof.

6. The fuel or fuel blending composition of claims 1-5, further comprising 5 vol% to 25 vol% of a secondary flux, the secondary flux comprising a BMCI of 40 or less and a S_{BN} of 50 or less, wherein S_{BN} is calculated from the S-value and S_a as determined according to ASTM D7157.

7. The fuel or fuel blending composition of claims 1-6, wherein the resid-containing fraction comprises a $S_{BN} – I_N$ difference value of 40 or less, or wherein the fuel composition comprises a $S_{BN} – I_N$ difference value of 20 or more, or a combination thereof, wherein S_{BN} and I_N are calculated from the S-value and S_a as determined according to ASTM D7157.

8. The fuel or fuel blending composition of claims 1-7, wherein the resid-containing fraction comprises a kinematic viscosity at 50°C of 30 cSt or more as determined according to ASTM D445, or wherein the resid-containing fraction comprises a density at 15°C of 0.95 g/cm^3 or more as determined according to ASTM D4052, or a combination thereof.

9. The fuel or fuel blending composition of claims 1-8, wherein the resid-containing fraction comprises 5.0 wt% or more of micro carbon residue, or a combination thereof.

10. The fuel or fuel blending composition of claims 1-9, wherein the fuel or fuel blending composition comprises a kinematic viscosity at 50°C of 380 cSt or less, or wherein the fuel or fuel blending composition comprises a kinematic viscosity at 50°C of 60 cSt or less, wherein kinematic viscosity is determined according to ASTM D445.

11. The fuel or fuel blending composition of claims 1-10, wherein the fuel or fuel blending composition comprises 5000 wppm or less of sulfur as determined according to ASTM D2622, or a combination thereof.

12. The fuel or fuel blending composition of claims 1-11, wherein the fuel or fuel blending composition comprises a sulfur content of 1000 wppm or less, or a sulfur content of 800 wppm or more, or a combination thereof, wherein the sulfur content is determined according to ASTM D2622.

13. The fuel or fuel blending composition of claims 1-12, wherein the one or more fatty acid alkyl esters comprise one or more fatty acid methyl esters.

14. Use of a fuel comprising the fuel or fuel blending composition of any of claims 1-13 as a fuel in a combustion device.

15. A method for forming a fuel or fuel blending composition according to any of claims 1 to 13, comprising blending 20 vol% or more of a resid-containing fraction having a T90 distillation point of 550ºC or more as measured according to ASTM D7169 and 5 vol% to 80 vol% of one or more fatty acid alkyl esters to form the fuel composition, the one or more fatty acid alkyl esters comprising a BMCI of 50 or less and a S_{BN} of 55 or more.