What is claimed:

1. A process comprising contacting a bulk or supported hydroprocessing catalyst with pyrolysis oil and hydrogen at temperatures lower than 290°C. in the presence of at least one added alcohol, wherein said hydroprocessing catalyst contains at least one Group VIII metal and at least one Group VIB metal and wherein said at least one added alcohol is selected from i) an alcohol containing from 4 to 9 carbon atoms, or ii) a mixture of at least one first and at least one second alcohol having the same or a different number of carbon atoms wherein said at least one first alcohol contains from 4 to 9 atoms and said at least one second alcohol contains in the range of from 1 to 15 carbon atoms.

2. The process according to claim 1 wherein said supported catalysts comprise a support selected from silica, alumina, or silica-alumina, carbon, activated carbon, MgO, TiO_2, and ZrO_2 support.

3. The process according to claim 1 wherein said supported catalysts comprise a support consisting essentially of alumina.

4. The process according to claim 1 wherein said supported catalyst further comprises at least one promoter and/or said bulk catalyst further comprises a Group V metal component.

5. The process according to claim 1 wherein said supported catalyst comprises at least one Group VIII metal present in an amount ranging from 0.5 to 20 wt.% and at least one Group VIB metal present in an amount ranging from 2 to 50 wt.%.

6. The process according to claim 1 wherein said at least one added alcohol is isobutanol.

7. A process comprising:

a) contacting a bulk or supported hydroprocessing catalyst with pyrolysis oil and hydrogen at temperatures in the range of from 40°C to 290°C. in the presence of at least one added alcohol thereby producing at least a hydroprocessing product, which comprises at least water, at least a portion of the at least one added alcohol, and products;

b) recovering at least a portion of said products from said hydroprocessing product, and

c) recycling i) at least a portion of the hydroprocessing product, ii) at least a portion of any hydrogen, iii) at least a portion of the at least one added alcohol, iv) at least a portion of the products, or v) any combination of i)-iv),

wherein said hydroprocessing catalyst contains at least one Group VIII metal and at least one Group VIB metal, and wherein said at least one added alcohol is selected from i) at least one alcohol containing from 4 to 9 carbon atoms, or ii) a mixture of at least one first and at least one second alcohol having the same or a different number of carbon atoms wherein said at least one first alcohol contains

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from 4 to 9 carbon atoms and said at least one second alcohol contains in the range of from 1 to 15 carbon atoms.

8. The process according to claim 7 wherein said hydroprocessing catalyst is selected from supported hydroprocessing catalysts containing in the range of from 0.5 to 20 wt.% of said at least one Group VIII metal and in the range of from 2 to 50 wt.% of said at least one Group VIB metal, wherein said at least one Group VIII metal is selected from Fe, Co, Ni, and combinations thereof, and said at least one Group VIB metal is selected from Mo, W and combinations thereof.

9. The process according to claim 8 wherein said supported catalysts comprise a support selected from silica, alumina, or silica-alumina, carbon, activated carbon, MgO, TiO_2, and ZrO_2 support.

10. A process comprising:

a) contacting a bulk or supported hydroprocessing catalyst with pyrolysis oil and hydrogen at temperatures in the range of from 40°C. to 290°C. in the presence of at least one added alcohol thereby producing at least a hydroprocessing product, which comprises at least water, at least a portion of the at least one added alcohol, and products;

b) recovering at least a portion of said products from said hydroprocessing product, and

c) recycling i) at least a portion of the hydroprocessing product, ii) at least a portion of any hydrogen, iii) at least a portion of the at least one added alcohol, iv) at least a portion of the products, or v) any combination of i)-iv),

wherein said hydroprocessing catalyst contains in the range of from 0.5 to 20 wt.% of said at least one Group VIII metal and in the range of from 2 to 50 wt.% of said at least one Group VIB metal, wherein said at least one Group VIII metal is selected from Fe, Co, Ni, and combinations thereof, and said at least one Group VIB metal is selected from Mo, W, and combinations thereof and said support is selected from silica, alumina, or silica-alumina, carbon activated carbon, MgO, TiO_2 and ZrO_2 support, and wherein said at least one added alcohol is selected from i) at least one alcohol containing from 4 to 9 carbon atoms, or ii) a mixture of at least one first and at least one second alcohol having the same or a different number of carbon atoms wherein said at least one first alcohol contains from 4 to 9 carbon atoms and said at least one second alcohol contains in the range of from 1 to 15 carbon atoms.

11. The process according to claim 10 wherein said supported catalysts comprise a support consisting essentially of alumina.

12. The process according to claim 10 wherein said supported catalyst further comprises at least one promoter selected from F, K, Si, B, P, or combinations thereof, wherein said at least one promoter is deposited on the surface of the support, present within the catalyst support, or both.

13. The process according to claim 10 wherein said process comprises a first hydroprocessing stage of steps a) through c) and at least one additional hydroprocessing stage wherein the temperatures of said additional hydroprocessing stage are higher than those used in the first hydroprocessing stage.

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