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(54) Title: HIGH TEMPERATURE THERMAL STABILITY ASSESSMENT OF THERMOCHEMICALLY DERIVED OILS

(57) Abstract: Assessing a thermal stability of a thermochemically derived oil (e.g., "untreated" bio-oil) includes heating the thermochemically derived oil to yield a treated thermochemically derived oil and a decomposition gas, combining the treated thermochemically derived oil with a non-polar solvent to yield a mixture, and precipitating a polymeric material from the mixture. The precipitated polymeric material can be separated from the mixture. A mass of the polymeric material and can be assessed. A mass percent of the polymeric material relative to the mass of the thermochemically derived oil before heating (e.g., the "untreated" bio-oil) can be assessed as a measure of the stability of the thermochemically derived oil.