CONVERSION PROCESS FOR AN INFERIOR OIL

Abstract

A conversion process for an inferior oil. At least one of an iron oxide compound, a desulfurization waste agent resulting from use of an iron oxide compound as desulfurizer, or a regeneration product thereof is employed as a catalyst, the molar ratio of elemental iron and elemental sulfur in a reaction system is controlled, and a free radical condensation polymerization is blocked by carbonylationa in the presence of CO during a cracking process, and hydrogenation is achieved with active hydrogen produced from the conversion of CO and water. An inferior oil can directly undergo a conversion reaction, the liquefaction yield and the calorific value of the oil product are increased, and no wastewater is produced in large volumes when the reaction is completed.

[No suitable figure]