

Abstract

The invention relates to the field of hydrocarbon oil processing, and discloses a process and a system for hydrotreating a deoiled asphalt, wherein the process comprises:

- 5 (2) introducing a deoiled asphalt and an aromatics-containing stream into a first reaction unit for hydrogenation reaction, wherein the first reaction unit comprises a mineral-rich precursor material and/or a hydrogenation catalyst, and the first reaction unit is a fixed bed hydrogenation unit; (21) fractionating the liquid-phase product from the first reaction unit to provide a first light component and a first heavy component; (31) introducing the
- 10 first light component into a second reaction unit for reaction, to provide a gasoline component, a diesel component and/or a BTX feedstock component; and (32) introducing the first heavy component to a delayed coking unit for reaction; or using the first heavy component as a low sulfur ship fuel oil component. The treatment process provided by the invention can realize high-value utilization of DOA.

15

Fig. 1