

PROCESS AND SYSTEM FOR MANUFACTURING LOW-SULFUR

RESIDUAL MARINE FUEL OIL

ABSTRACT

The present invention provides a process and a system for manufacturing a low-sulfur residual marine fuel oil. The process for manufacturing the low-sulfur residual marine fuel oil comprises: producing high-temperature upgraded oil-gas by chemical upgrading of low-quality heavy component, reacting the high-temperature upgraded oil-gas by contacting and mixing with a blending component under high temperature conditions, homogenizing and stabilizing the mixture resulted from the reaction, and then separating the light component from the mixture, thereby obtaining the low-sulfur residual marine fuel oil. The process provided by the invention has a simple procedure, and low energy consumption, and the uniformity and stability of the resultant low-sulfur marine fuel oil product are greatly improved.

(Fig.1)