

ABSTRACT

MANUFACTURING HYDROCARBON FLUIDS

A system and methods for manufacturing a base stock from a light hydrocarbon stream. An exemplary method includes cracking the light hydrocarbon stream to form a raw product stream. Water is removed from the raw product stream to form an oligomerization feed stream. The oligomerization feed stream is oligomerized to form an intermediate stream. A heavy olefinic stream is distilled from the intermediate stream. The heavy olefinic stream is hydro-processed to form a hydro-processed stream. The hydro-processed stream is distilled to form the base stock.

FIG. 1