

PRODUCTION OF LOW CLOUD POINT DIESEL FUELS
AND LOW FREEZE POINT JET FUELS

ABSTRACT OF THE DISCLOSURE

Methods are provided for dewaxing a distillate fuel boiling range feed to improve one or more cold flow properties of the distillate fuel feed, such as cloud point, where the distillate fuel feed is fractionated to produce both a jet fuel product and an arctic diesel fuel product. The decrease of cloud point is achieved by using a feedstock having a concentration of nitrogen of less than about 50 wppm and a concentration of sulfur of less than about 15 wppm. Further, the dewaxing catalyst may have a reduced content of hydrogenation metals, such as a content of Pt or Pd of from about 0.05 wt% to about 0.35 wt%. A distillate fuel feed can be dewaxed to achieve a desired cloud point differential using a reduced metals content dewaxing catalyst under the same or similar conditions to those required for a dewaxing catalyst with higher metals content.

(FIG. 1)