

Title (en)

PROCESS TO PREPARE MIDDLE DISTILLATES AND BASE OILS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON MITTELDESTILLATEN UND BASISÖLEN

Title (fr)

PROCÉDÉ DE PRÉPARATION DE DISTILLATS MOYENS ET D'HUILES DE BASE

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Application

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Abstract (en)

[origin: WO2014001552A1] The present invention provides a process to prepare a first middle distillates fraction, a second middle distillates fraction, a distillate base oil and a residual base oil, which process at least comprises the following steps: (a) providing a Fischer-Tropsch product stream; (b) separating the Fischer-Tropsch product stream of step (a), thereby obtaining at least a low boiling fraction, boiling below a temperature in the range of from 300 to 450 °C, and a high boiling fraction, boiling above a temperature in the range of from 300 to 450 °C; (c) subjecting the high boiling fraction of step (b) to a hydrocracking/hydroisomerization step to obtain an at least partially isomerised product stream; (d) separating the product stream of step (c), thereby obtaining a first middle distillates fraction, a heavy distillates fraction and a residual fraction, wherein the residual fraction has a T5 wt. % boiling point of between 400 and 650 °C; (e) dewaxing the low boiling fraction of step (b) to obtain a second middle distillates fraction; (f) dewaxing the heavy distillates fraction of step (d) to obtain a distillate base oil; and (g) dewaxing the residual fraction of step (d) to obtain a residual base oil.

IPC 8 full level

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