

Title (en)

Use of high pressure to improve product quality and increase cycle length in catalytic lube dewaxing.

Title (de)

Verwendung von Hochdruck zur Verbesserung der Produktqualität und zur Verlängerung des Zyklusses beim katalytischen Entwachsen von Schmierölen.

Title (fr)

Emploi de haute pression pour l'amélioration de la qualité de produit et l'augmentation de la longueur du cycle dans le déparaffinage catalytique des lubrifiants.

Publication

EP 0104807 A2 19840404 (EN)

Application

EP 83305125 A 19830905

Priority

US 42584282 A 19820928

Abstract (en)

A process for preparing high quality lube base stock oil from waxy crude oil is provided which comprises separating from the waxy crude a distillate fraction thereof having an initial boiling point of at least 232 DEG C (450 DEG F) and a final boiling point less than 566 DEG C (1050 DEG F), extracting the distillate fraction with a solvent selective for aromatic hydrocarbons to yield a raffinate from which undesirable compounds have been removed, catalytically dewaxing the raffinate in the presence of hydrogen to a pour point not higher than -1 DEG C (+30 DEG F) by contacting the raffinate at a temperature of 260 DEG C to 385 DEG C (500 DEG F to 725 DEG F) at a hydrogen partial pressure of above 10350 kPa (1500 psia) in the absence of hydrotreating catalyst with a dewaxing catalyst comprising an aluminosilicate zeolite having a silica/alumina ratio above 12 and a constraint index of from 1 to 12 thereby forming dewaxed raffinate and lower boiling hydrocarbons, and topping the raffinate subsequent to dewaxing to remove therefrom the lower boiling hydrocarbons; thereby directly recovering substantially all of the remainder of the dewaxed raffinate, the remainder having a pour point not higher than -1 DEG C (+30 DEG F).

IPC 1-7

C10G 45/64

IPC 8 full level

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CPC (source: EP)

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Cited by

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