Title (en)

USE OF HIGH PRESSURE TO IMPROVE PRODUCT QUALITY AND INCREASE CYCLE LENGTH IN CATALYTIC LUBE DEWAXING

Publication

EP 0104807 B1 19900404 (EN)

Application

EP 83305125 A 19830905

Priority

US 42584282 A 19820928

Abstract (en)

[origin: EP0104807A2] 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 labs 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 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

C10G 45/64 (2006.01); **C10G 67/04** (2006.01)

CPC (source: EP)

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Cited by

AU2012211757B2; EP0161833A3; FR2785617A1; FR2797270A1; US5098551A; WO0027950A1; US9487713B2

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