

Title (en)

Method for isomerizing wax to lube base oils.

Title (de)

Verfahren zur Isomerisierung von Wachs zu Schmierbasisölen.

Title (fr)

Méthode d'isomérisation de cires en huiles lubrifiantes de base.

Publication

EP 0321307 A2 19890621 (EN)

Application

EP 88311989 A 19881216

Priority

US 13515087 A 19871218

Abstract (en)

Slack waxes and synthetic wax (1) are isomerized and processed into high viscosity index (VI) and very low pour point lube base stock oils and blending stocks (11) by the process comprising the steps of optionally hydrotreating (3) the wax, if necessary, to remove heteroatom and polynuclear aromatic compounds and/or optionally deoiling the wax, if necessary, to an oil content between about 5-20% oil, isomerizing (5, 7) the wax over a catalyst of Group VI-Group VIII metal on a halogenated refractory metal oxide support, said isomerization being conducted to a level of conversion such that about 40% or less unconverted wax remains in the 330 DEG C+ (preferably the 370 DEG C+) fraction sent to the dewaxer. The total isomerate from the isomerization unit is fractionated (8) into a lube oil fraction (9) boiling at 330 DEG C+, preferably 370 DEG C+. This oil fraction is solvent dewaxed (10), preferably using MEK/MIBK at 20/80 ratio, and unconverted wax (12) is recycled (12A, 12B) to the isomerization unit. Operating in this manner permits one to obtain isomerate oil (11) of very high VI (in excess of 130) possessing a low pour point (-21 DEG C, preferably -24 DEG C, most preferably -27 DEG C).

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NL1025687C2; AU730150B2; EP1054942A4; FR2718146A1; US5275719A; EP1062305A4; EP1559769A1; US5720782A; EP0620264A3; EP0491536A1; US5149452A; US6962651B2; US7198710B2; US6096940A; EP1389635A1; US6103101A; FR2718145A1; US5834522A; WO9507960A1; US6420618B1; US6475960B1; US6506297B1; WO9721788A1; WO9527020A1

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