

Title (en)
PROCESS FOR PREPARING A HEAVY BASE OIL

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES SCHWERBASISÖLS

Title (fr)
PROCÉDÉ DE PRÉPARATION D'UNE HUILE DE BASE LOURDE

Publication
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Application
EP 14720073 A 20140422

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Abstract (en)
[origin: WO2014177424A2] The invention provides a process for preparing a heavy base oil comprising the steps of: (a) providing a hydrocarbonaceous feedstock which contains at least 50% by weight of hydrocarbons boiling above 460 °C, nitrogen in amount in the range of from 800-2500 ppmw, and sulphur in an amount in the range of from 1.5-4.0 %wt ppmw; (b) hydrotreating the hydrocarbonaceous feedstock with a hydrotreating catalyst in the presence of a hydrogen- containing gas under hydrotreating conditions to obtain a hydrotreated product which contains nitrogen in an amount in the range of from 30-80 ppmw and sulphur in an amount in the range of from 200-450 ppmw; (c) removing at least 50% of the N₂ and S which is present in the hydrotreated product as obtained in step (b); (d) catalytically dewaxing at least part of the hydrotreated product as obtained in step (c) with a dewaxing catalyst in the presence of a hydrogen- containing gas under catalytic dewaxing conditions to obtain a dewaxed product, which dewaxing catalyst comprises a Group VIII metal hydrogenation component, dealuminated aluminosilicate zeolite crystallites and a low acidity refractory oxide binder material which is essentially free of alumina; (e) hydrofinishing at least part of the dewaxed product as obtained in step (d) with a hydrofinishing catalyst in the presence of a hydrogen-containing gas under hydrofinishing conditions to obtain a heavy base oil; and (f) recovering the heavy base oil.

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Cited by
US11788017B2; US12025435B2; US10604709B2; US11136513B2; US11795406B2; US10533141B2; US10563132B2; US10563133B2; US10584287B2; US10655074B2; US10836966B2; US11203722B2; US11345863B2; US11441084B2; US11447706B2; US11492559B2; US11530360B2; US11884883B2; US11912945B2

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