

Title (en)

Improved process for the production of base stock oils from used oil

Title (de)

Verbessertes Verfahren zur Produktion von Grundölen aus Altöl

Title (fr)

Procédé amélioré pour la production d'huiles de base à partir d'huile usée

Publication

**EP 0574272 B1 20000405 (EN)**

Application

**EP 93304584 A 19930614**

Priority

US 89802592 A 19920612

Abstract (en)

[origin: EP0574272A2] The present invention provides an improved process for producing from used oil a lube oil base stock suitable for use in automobile lubricating oil comprising the steps of: (a) pretreating used oil to remove hydrofinishing catalyst fouling materials to give a pretreated mixture; (b) distilling the pretreated mixture from step (a) to separate a lower boiling distillate fraction which boils at less than 150 DEG C, a gasoil distillate fraction; and a lube oil distillate fraction from an asphalt fraction; and (c) hydrofinishing the lube oil distillate fraction from step (b). In step (a), a sufficient amount of an alkali compound is added under vigorous mixing conditions and in the presence of at least about 3% water to give a pH of at least about 5 in the gas phase of all the distillates produced in step (b). The conditions in step (a) can additionally be chosen so that substantially all free phosphorus is converted to an insoluble phosphate or phosphoro compound.

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CPC (source: EP)

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Cited by

EP2625250A4; CN110923052A; ES2238000A1; ES2629851A1; CN112513228A; AU2019307774B2; US7261808B2; US7226533B2; WO03033630A1; WO2015067828A1; US9932530B2; CN111334368A; CN112534030A; EP3854863A1; CN113234481A; AU2019310763B2; US11981869B2; US11499104B2; US11427782B2; US11655422B2; US11624030B2; WO2020020769A1; WO9858043A1; WO2020016410A1; WO2020016400A1; EP3824053B1; EP3902898B1

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