

Title (en)

ALKALINE TREATMENT METHOD FOR REFINING USED OILS

Title (de)

VERFAHREN ZUM RAFFINIEREN VON VERBRAUCHTEN SCHMIERÖLEN DURCH ALKALIBEHANDLUNG.

Title (fr)

PROCEDE DE RAFFINAGE D'HUILES USAGEES PAR TRAITEMENT ALCALIN

Publication

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Application

**EP 96924004 A 19960621**

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Abstract (en)

[origin: US6072065A] PCT No. PCT/FR96/00974 Sec. 371 Date Apr. 20, 1998 Sec. 102(e) Date Apr. 20, 1998 PCT Filed Jun. 21, 1996 PCT Pub. No. WO97/00928 PCT Pub. Date Jan. 9, 1997An alkaline treatment method for refining used oils, wherein (a) the used oils are distilled; (b) the resulting distillate is treated with an alkaline agent in the presence of a solvent selected from water, a monoalcohol, a polyalcohol and a mixture of said alcohols, said alkaline agent being present in a percentage by weight, based on the weight of the distillate, equal to the product  $F \times (IA + IS)$ , where F is a multiplier between 2 and 50 and IA and IS are the acid value and the saponification value respectively of said distillate, at a temperature of around 80-330 DEG C. for 2-200 minutes; (c) the reaction medium is washed with water then decanted to recover the oily phase; and (d) said oily phase is distilled. The method is useful for producing refined oils having excellent properties in that they are odorless and nearly colorless and in that they have a very low chlorine, phosphorus and silicon content.

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