

Title (en)
VEGETABLE OIL-BASED HYDRAULIC FLUID AND TRANSMISSION FLUID

Title (de)
HYDRAULIKFLÜSSIGKEIT UND GETRIEBEÖL AUF PFLANZENÖLBASIS

Title (fr)
LIQUIDE HYDRAULIQUE ET HUILE À ENGRENAGES À BASE D'HUILE VÉGÉTALE

Publication
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Application
EP 09752722 A 20091013

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• CH 17142008 A 20081014

Abstract (en)
[origin: CA2740526A1] The invention relates to the use of vegetable oil having a natural viscosity index (VI) of greater than or equal to 200, said oil having a portion of monounsaturated fatty acids of at least 80%, a portion of double unsaturated fatty acids of 1 - 10% at maximum, and a portion of triple unsaturated fatty acids of less than 1%, preferably less than 0.5% and particularly preferably less than or equal to 0.1%, as a pressure medium in hydraulic systems and/or as transmission fluid. Part of the vegetable oil can be used in the form of an unsaturated ester of the vegetable oil. It can also contain at least one additive in a portion of 2 - 5% weight, selected from anti-oxidants, copper deactivators, anti-corrosion agents, wear protection agents and/or anti-foaming agents. The shear stability of the vegetable oil used according to the invention equals 0.7% or less, measured over 20 hours.

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