Title (en)

Synthetic lubricant base stock formed from high content branched chain acid mixtures

Title (de)

Aus mit einem hohen Gehalt an verzweigtkettigen Säuremischungen hergestellte synthetische Grundschmieröle

Title (fr)

Base lubrifiante synthétique formée à partir de mélanges d'acides dont une grande partie à chaînes ramifiées

Publication

EP 0518567 B1 20000913 (EN)

Application

EP 92305169 A 19920605

Priority

US 71219091 A 19910607

Abstract (en)

[origin: EP0518567A1] An improved synthetic ester lubricant base stock formed by reacting a neopentyl polyol with a mixture of aliphatic monocarboxylic acids is provided. The mixture of acids includes straight-chain acids having from 5 to 10 carbon atoms and an iso-acid having from 7 to 10 carbon atoms, preferably iso-nonanoic acid, wherein the iso-acid is present in about 60-90 weight percent of the acid charge. The base stock is mixed with a conventional ester lubricant additive package to form a lubricant having a viscosity at 210 DEG F. of at least 7.0 centistockes with the resulting lubricants having a decreased tendency to form deposits in high temperature chain oil applications.

IPC 1-7

C10M 105/38

IPC 8 full level

C10M 105/38 (2006.01); C10N 30/02 (2006.01); C10N 30/04 (2006.01); C10N 30/08 (2006.01); C10N 30/10 (2006.01); C10N 40/32 (2006.01)

CPC (source: EP)

C10M 105/38 (2013.01); C10M 2207/281 (2013.01); C10M 2207/282 (2013.01); C10M 2207/283 (2013.01); C10M 2207/286 (2013.01); C10N 2040/00 (2013.01); C10N 2040/06 (2013.01); C10N 2040/135 (2020.05); C10N 2040/25 (2013.01); C10N 2040/251 (2020.05); C10N 2040/255 (2020.05); C10N 2040/28 (2013.01); C10N 2040/30 (2013.01); C10N 2040/32 (2013.01); C10N 2040/34 (2013.01); C10N 2040/36 (2013.01); C10N 2040/38 (2020.05); C10N 2040/40 (2020.05); C10N 2040/42 (2020.05); C10N 2040/44 (2020.05); C10N 2040/50 (2020.05)

Cited by

EP1323815A3; FR2734576A1; EP1281701A1; CN102260571A; CN1057113C; US6177387B1; AU2002310255B2; US5503761A; EP0695797A3; WO9832728A1; WO9637579A1; WO9808801A1; WO02099021A1; US6750182B1; WO2011026990A1; KR100899832B1; EP3307857B1

Designated contracting state (EPC)

BE DE ES FR GB IT NL

DOCDB simple family (publication)

EP 0518567 A1 19921216; **EP 0518567 B1 20000913**; DE 69231433 D1 20001019; DE 69231433 T2 20010523; JP H0665587 A 19940308

DOCDB simple family (application)

EP 92305169 A 19920605; DE 69231433 T 19920605; JP 17379092 A 19920608