

Title (en)

The use of an additive composition to improve wet filterability of lubricating compositions

Title (de)

Verwendung einer Additivzusammensetzung zur Verbesserung der Filtrierbarkeit von mit Wasser kontaminierten Schmiermittelzusammensetzungen

Title (fr)

Utilisation d'une composition d'additif pour améliorer la filtrabilité de compositions lubrifiantes en présence d'eau

Publication

EP 0551466 B1 19980617 (EN)

Application

EP 92915925 A 19920715

Priority

- US 9205928 W 19920715
- US 73901791 A 19910731

Abstract (en)

[origin: WO9303121A1] This invention relates to compositions comprising a major amount of an oil of lubricating viscosity, (A) a metal salt selected from the group consisting of sulfonates, phenates, carboxylates and mixtures thereof, (B) an aliphatic carboxylic acid or anhydride, or carboxylic acid containing derivative thereof, wherein the aliphatic group contains at least about 20 carbon atoms and optionally (C) a metal salt of (C) (I) at least one organic phosphorus acid or a mixture of (C) (I) at least one organic phosphorus acid and (C) (II) at least one carboxylic acid. Also disclosed are lubricants and functional fluids containing these additives, methods for improving the wet filterability of lubricants and functional fluids, and means for retaining zinc when zinc-containing compositions are exposed to water.

IPC 1-7

C10M 141/10; C10M 163/00

IPC 8 full level

C08K 3/04 (2006.01); **C08K 3/40** (2006.01); **C08K 7/06** (2006.01); **C08K 7/14** (2006.01); **C08L 71/12** (2006.01); **C10M 129/38** (2006.01); **C10M 129/68** (2006.01); **C10M 129/92** (2006.01); **C10M 129/95** (2006.01); **C10M 137/02** (2006.01); **C10M 137/04** (2006.01); **C10M 137/10** (2006.01); **C10M 141/10** (2006.01); **C10M 159/20** (2006.01); **C10M 163/00** (2006.01); **C10N 10/02** (2006.01); **C10N 10/04** (2006.01); **C10N 10/06** (2006.01); **C10N 10/08** (2006.01); **C10N 10/12** (2006.01); **C10N 10/14** (2006.01); **C10N 10/16** (2006.01); **C10N 30/00** (2006.01); **C10N 40/08** (2006.01); **C10N 40/20** (2006.01); **C10N 40/25** (2006.01)

IPC 8 main group level

C10M (2006.01)

CPC (source: EP)

C10M 129/10 (2013.01); **C10M 129/30** (2013.01); **C10M 129/34** (2013.01); **C10M 129/54** (2013.01); **C10M 129/76** (2013.01); **C10M 135/10** (2013.01); **C10M 137/06** (2013.01); **C10M 137/10** (2013.01); **C10M 141/10** (2013.01); **C10M 159/20** (2013.01); **C10M 159/22** (2013.01); **C10M 159/24** (2013.01); **C10M 163/00** (2013.01); **C10M 2207/023** (2013.01); **C10M 2207/026** (2013.01); **C10M 2207/027** (2013.01); **C10M 2207/028** (2013.01); **C10M 2207/121** (2013.01); **C10M 2207/123** (2013.01); **C10M 2207/125** (2013.01); **C10M 2207/129** (2013.01); **C10M 2207/144** (2013.01); **C10M 2207/146** (2013.01); **C10M 2207/26** (2013.01); **C10M 2207/262** (2013.01); **C10M 2207/287** (2013.01); **C10M 2207/288** (2013.01); **C10M 2207/289** (2013.01); **C10M 2209/105** (2013.01); **C10M 2215/064** (2013.01); **C10M 2215/22** (2013.01); **C10M 2215/221** (2013.01); **C10M 2215/225** (2013.01); **C10M 2215/226** (2013.01); **C10M 2215/30** (2013.01); **C10M 2219/044** (2013.01); **C10M 2219/046** (2013.01); **C10M 2219/087** (2013.01); **C10M 2219/088** (2013.01); **C10M 2219/089** (2013.01); **C10M 2223/04** (2013.01); **C10M 2223/041** (2013.01); **C10M 2223/042** (2013.01); **C10M 2223/045** (2013.01); **C10N 2010/00** (2013.01); **C10N 2010/02** (2013.01); **C10N 2010/04** (2013.01); **C10N 2040/25** (2013.01); **C10N 2040/251** (2020.05); **C10N 2040/255** (2020.05); **C10N 2040/28** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DOCDB simple family (publication)

WO 9303121 A1 19930218; AT E167512 T1 19980715; AU 2339692 A 19930302; AU 658218 B2 19950406; CA 2088768 A1 19930201; DE 69225947 D1 19980723; DE 69225947 T2 19990325; EP 0551466 A1 19930721; EP 0551466 B1 19980617; ES 2119816 T3 19981016; FI 931039 A0 19930309; FI 931039 A 19930309; JP 3212603 B2 20010925; JP H06502682 A 19940324; MX 9204467 A 19940630; NO 931202 D0 19930330; NO 931202 L 19930514

DOCDB simple family (application)

US 9205928 W 19920715; AT 92915925 T 19920715; AU 2339692 A 19920715; CA 2088768 A 19920715; DE 69225947 T 19920715; EP 92915925 A 19920715; ES 92915925 T 19920715; FI 931039 A 19930309; JP 50358893 A 19920715; MX 9204467 A 19920730; NO 931202 A 19930330