

Title (en)

METHOD FOR LUBRICATING A 2-STROKE DIESEL ENGINE WITH LUBRICATING COMPOSITIONS CONTAINING SULPHONATES

Title (de)

VERFAHREN ZUM SCHMIEREN EINES 2-TAKT DIESELMOTORS MIT SCHMIERMITTELZUSAMMENSETZUNGEN ENTHALTEND SULFONATE

Title (fr)

METHODE DE LUBRIFICATION D'UN MOTEUR DIESEL A DEUX TEMPS AVEC COMPOSITIONS LUBRIFIANTES CONTENANT DES SULFONATES

Publication

EP 1805287 A1 20070711 (EN)

Application

EP 05802859 A 20051003

Priority

- US 2005035600 W 20051003
- US 61644604 P 20041006

Abstract (en)

[origin: WO2006041810A1] A lubricating composition containing (a) a detergent package containing (i) an oligomeric reaction product of (1) a hydrocarbyl-substituted phenol; (2) an aldehyde; and (3) a carboxyl-substituted phenol or a carboxyl-substituted phenylamine; and salts of the reaction product; (ii) a sulphonate; and (iii) optionally a phenate; (b) a dispersant; and (c) an oil of lubricating viscosity, wherein the sulphonate detergent is overbased with a metal ratio of about 12.5:1 to about 40:1. The composition is suitable for internal combustion engines, particularly marine diesel applications to provide improved cleanliness properties, antiwear performance or deposit control.

IPC 8 full level

C10M 163/00 (2006.01); **C10M 159/20** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)

C10M 159/20 (2013.01 - EP US); **C10M 163/00** (2013.01 - EP US); **C10M 2207/027** (2013.01 - EP US); **C10M 2207/028** (2013.01 - EP US); **C10M 2207/144** (2013.01 - EP US); **C10M 2207/146** (2013.01 - EP US); **C10M 2215/06** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2217/043** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2219/088** (2013.01 - EP US); **C10M 2219/089** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2040/25** (2013.01 - EP US); **C10N 2040/252** (2020.05 - EP US); **C10N 2060/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2006041810A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 2006041810 A1 20060420; CA 2583420 A1 20060420; CA 2583420 C 20131001; CN 101065470 A 20071031; CN 101065470 B 20110119; EP 1805287 A1 20070711; EP 1805287 B1 20170920; JP 2008516049 A 20080515; JP 2012211337 A 20121101; JP 5158780 B2 20130306; US 2008269090 A1 20081030

DOCDB simple family (application)

US 2005035600 W 20051003; CA 2583420 A 20051003; CN 200580040097 A 20051003; EP 05802859 A 20051003; JP 2007535744 A 20051003; JP 2012156750 A 20120712; US 57661105 A 20051003