

Title (en)
POLYALKYLENE GLYCOL-BASED WIND TURBINE LUBRICANT COMPOSITIONS

Title (de)
SCHMIERMITTELZUSAMMENSETZUNGEN AUF POLYLALKYLEN-GLYCOL-BASIS FÜR WINDTURBINEN

Title (fr)
COMPOSITION DE LUBRIFIANT À BASE DE POLYALKYLÈNE GLYCOL POUR DES ÉOLIENNES

Publication
EP 2274408 A1 20110119 (EN)

Application
EP 09739458 A 20090422

Priority
• US 2009041363 W 20090422
• US 4841008 P 20080428

Abstract (en)
[origin: WO2009134656A1] A lubricant composition that is especially useful under extreme conditions, such as in wind turbine gearboxes, comprises a mixed feed glycol; a polyol ester; two particular antioxidants; a phosphorus-based extreme pressure additive; a yellow metal passivator; and at least one specified corrosion inhibitor. The composition passes testing according to ASTM D665B even at 168 hours from initiation, and/or the SKF-Emcor Test Method DIN 51802:1990.

IPC 8 full level
C10M 169/04 (2006.01); **C10N 10/04** (2006.01); **C10N 20/02** (2006.01); **C10N 30/06** (2006.01); **C10N 30/10** (2006.01); **C10N 30/12** (2006.01); **C10N 30/14** (2006.01); **C10N 40/04** (2006.01)

CPC (source: EP US)
C10M 169/04 (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1065** (2013.01 - EP US); **C10M 2207/141** (2013.01 - EP US); **C10M 2207/283** (2013.01 - EP US); **C10M 2207/2835** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2207/32** (2013.01 - EP US); **C10M 2209/1045** (2013.01 - EP US); **C10M 2209/107** (2013.01 - EP US); **C10M 2209/1075** (2013.01 - EP US); **C10M 2215/064** (2013.01 - EP US); **C10M 2215/065** (2013.01 - EP US); **C10M 2215/223** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10M 2223/04** (2013.01 - EP US); **C10M 2223/041** (2013.01 - EP US); **C10M 2223/043** (2013.01 - EP US); **C10M 2223/047** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2020/02** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2030/12** (2013.01 - EP US); **C10N 2030/14** (2013.01 - EP US); **C10N 2040/04** (2013.01 - EP US)

Citation (search report)
See references of WO 2009134656A1

Cited by
EP3868852A4; US11421178B2; WO2019005767A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009134656 A1 20091105; AR 071223 A1 20100602; CL 2009001000 A1 20100514; CN 102066537 A 20110518; CN 102066537 B 20130814; DK 2274408 T3 20130204; EP 2274408 A1 20110119; EP 2274408 B1 20121017; ES 2396924 T3 20130301; US 2011039739 A1 20110217

DOCDB simple family (application)
US 2009041363 W 20090422; AR P090101492 A 20090427; CL 2009001000 A 20090427; CN 200980122957 A 20090422; DK 09739458 T 20090422; EP 09739458 A 20090422; ES 09739458 T 20090422; US 98887509 A 20090422