

Title (en)

LUBRICATING COMPOSITIONS FOR TURBINE AND HYDRAULIC SYSTEMS WITH IMPROVED ANTIOXIDANCY

Title (de)

SCHMIERMITTELZUSAMMENSETZUNGEN FÜR EINE TURBINE UND HYDRAULISCHE SYSTEME MIT VERBESSERTEN ANTIOXIDATIONSEIGENSCHIFTEN

Title (fr)

COMPOSITIONS LUBRIFIANTES POUR TURBINES ET SYSTÈMES HYDRAULIQUES À POUVOIR ANTIOXYDANT AMÉLIORÉ

Publication

EP 2710102 A1 20140326 (EN)

Application

EP 12724792 A 20120514

Priority

- US 201161486343 P 20110516
- US 2012037732 W 20120514

Abstract (en)

[origin: WO2012158595A1] The present invention relates to a synergistic combination of an antioxidant and an antiwear additive that results in improved antioxidancy performance in turbine, hydraulic, and other industrial lubricating compositions. The invention further relates to the processes to make the improved lubricating compositions and methods of their use in industrial fluids.

IPC 8 full level

C10M 141/08 (2006.01); **C10M 161/00** (2006.01)

CPC (source: EP US)

C10M 141/08 (2013.01 - EP US); **C10M 161/00** (2013.01 - EP US); **C10M 2207/126** (2013.01 - EP US); **C10M 2207/281** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2209/103** (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 2215/224** (2013.01 - EP US); **C10M 2219/022** (2013.01 - EP US); **C10M 2219/066** (2013.01 - EP US); **C10M 2219/082** (2013.01 - EP US); **C10M 2219/084** (2013.01 - EP US); **C10M 2223/043** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2040/08** (2013.01 - EP US); **C10N 2040/12** (2013.01 - EP US); **C10N 2040/135** (2020.05 - EP US)

Citation (search report)

See references of WO 2012158595A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012158595 A1 20121122; CA 2834078 A1 20121122; CN 103517972 A 20140115; EP 2710102 A1 20140326; JP 2014515058 A 20140626; JP 6073032 B2 20170201; US 2014045736 A1 20140213

DOCDB simple family (application)

US 2012037732 W 20120514; CA 2834078 A 20120514; CN 201280023087 A 20120514; EP 12724792 A 20120514; JP 2014511438 A 20120514; US 201214113222 A 20120514