

Title (en)
CYLINDER LUBRICANT FOR A TWO-STROKE MARINE ENGINE

Title (de)
ZYLINDERSCHMIERMITTEL FÜR EINEN ZWEITAKTSCHIFFSMOTOR

Title (fr)
LUBRIFIANT CYLINDRE POUR MOTEUR MARIN DEUX TEMPS

Publication
EP 2697344 B1 20190109 (FR)

Application
EP 12714700 A 20120413

Priority

- FR 1153276 A 20110414
- EP 2012056812 W 20120413

Abstract (en)
[origin: WO2012140215A1] The present invention relates to a cylinder lubricant having a BN determined according to the ASTM D-2896 standard of at least 15 milligrams of potassium hydroxide per gram of lubricant, comprising: (a) one or more lubricating base oils for a marine engine, (b) at least one detergent based on alkali or alkaline-earth metals, which detergent is overbased by metal carbonate salts, (c) at least one neutral detergent, (d) one or more alkoxyated fatty amines soluble in the oil and having a BN determined according to the ASTM D-2896 standard of between 100 and 600 milligrams of potassium hydroxide per gram, where the weight percentage of alkoxyated fatty amines with respect to the total weight of lubricant is chosen so that the BN provided by these compounds represents a contribution of between of 2 and 8 milligrams of potassium hydroxide per gram of lubricant, and where the BN provided by the metal carbonate salts represents a contribution of at most 65% of the total BN, measured according to the ASTM D-2896 standard, of said cylinder lubricant. Said lubricant has a sufficient neutralizing power with respect to the sulphuric acid formed during the combustion of fuels having a high sulphur content, while limiting the formation of deposits during the use of fuels having a low sulphur content. Its thermal resistance and its anti-wear properties are improved.

IPC 8 full level
C10M 159/20 (2006.01); **C10M 163/00** (2006.01)

CPC (source: EP KR US)
C10M 133/06 (2013.01 - KR); **C10M 159/20** (2013.01 - EP KR US); **C10M 163/00** (2013.01 - EP KR US); **C10M 169/04** (2013.01 - KR); **F01M 7/00** (2013.01 - US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2207/021** (2013.01 - EP US); **C10M 2207/027** (2013.01 - EP US); **C10M 2207/028** (2013.01 - EP US); **C10M 2207/10** (2013.01 - EP US); **C10M 2207/144** (2013.01 - EP US); **C10M 2207/26** (2013.01 - EP US); **C10M 2207/262** (2013.01 - EP US); **C10M 2207/281** (2013.01 - EP US); **C10M 2207/282** (2013.01 - EP US); **C10M 2215/04** (2013.01 - EP US); **C10M 2215/042** (2013.01 - EP US); **C10M 2219/044** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10N 2010/02** (2013.01 - EP US); **C10N 2030/02** (2013.01 - EP US); **C10N 2030/04** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/12** (2013.01 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2040/252** (2020.05 - EP US); **C10N 2040/26** (2013.01 - EP US); **C10N 2070/02** (2020.05 - EP US)

Citation (examination)
WO 2010016856 A1 20100211 - LUBRIZOL CORP [US], et al

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 2012140215 A1 20121018; AR 086009 A1 20131113; CN 103649285 A 20140319; CN 103649285 B 20160817; DK 2697344 T3 20190423; EP 2697344 A1 20140219; EP 2697344 B1 20190109; ES 2718833 T3 20190704; FR 2974111 A1 20121019; FR 2974111 B1 20130510; JP 2014510824 A 20140501; JP 5914633 B2 20160511; KR 101958808 B1 20190315; KR 20140044799 A 20140415; LT 2697344 T 20190510; PL 2697344 T3 20190731; PT 2697344 T 20190430; RU 2013145284 A 20150520; RU 2598848 C2 20160927; SG 194140 A1 20131129; TR 201904927 T4 20190521; US 2014041610 A1 20140213; US 9605568 B2 20170328

DOCDB simple family (application)
EP 2012056812 W 20120413; AR P120101291 A 20120413; CN 201280027824 A 20120413; DK 12714700 T 20120413; EP 12714700 A 20120413; ES 12714700 T 20120413; FR 1153276 A 20110414; JP 2014504345 A 20120413; KR 20137027026 A 20120413; LT 12714700 T 20120413; PL 12714700 T 20120413; PT 12714700 T 20120413; RU 2013145284 A 20120413; SG 2013075114 A 20120413; TR 201904927 T 20120413; US 201214111684 A 20120413