

Title (en)  
MARINE ENGINE LUBRICATION

Title (de)  
SCHMIERUNG FÜR EINEN SCHIFFSMOTOR

Title (fr)  
LUBRIFICATION DE MOTEUR MARIN

Publication  
**EP 3034587 B1 20190918 (EN)**

Application  
**EP 15195670 A 20151120**

Priority  

- EP 14199258 A 20141219
- EP 15195670 A 20151120

Abstract (en)  
[origin: EP3034587A1] Trunk piston marine engine crankcase lubrication is effected by a composition that includes a nitrogen-containing ashless dispersant additive component in an amount providing in the range of 50 to 150 ppm N by mass to diminish loss of BN and diminish increase of viscosity during use of the composition without adversely affecting deposits performance.

IPC 8 full level  
**C10M 133/56** (2006.01)

CPC (source: CN EP)  
**C10M 133/56** (2013.01 - EP); **C10M 167/00** (2013.01 - CN); **C10M 2203/1006** (2013.01 - EP); **C10M 2207/023** (2013.01 - CN);  
**C10M 2207/026** (2013.01 - EP); **C10M 2207/262** (2013.01 - CN EP); **C10M 2215/02** (2013.01 - CN); **C10M 2215/04** (2013.01 - CN);  
**C10M 2215/064** (2013.01 - EP); **C10M 2215/28** (2013.01 - EP); **C10N 2010/04** (2013.01 - EP); **C10N 2030/02** (2013.01 - EP);  
**C10N 2030/04** (2013.01 - EP); **C10N 2030/08** (2013.01 - EP); **C10N 2030/10** (2013.01 - EP); **C10N 2030/52** (2020.05 - CN EP);  
**C10N 2040/252** (2020.05 - CN EP)

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)  
**EP 3034587 A1 20160622; EP 3034587 B1 20190918**; AU 2015271928 A1 20160707; AU 2015271928 B2 20161124; CA 2915701 A1 20160619;  
CA 2915701 C 20221018; CN 105713703 A 20160629; CN 105713703 B 20200515; ES 2759077 T3 20200507; JP 2016117900 A 20160630;  
KR 20160075361 A 20160629; SG 10201510456Q A 20160728

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