

Title (en)

Marine diesel engine lubricating oil composition having improved high temperature performance

Title (de)

Schmierölzusammensetzung mit verbesserten Hochtemperatureigenschaften für Schiffsdieselmotor

Title (fr)

Composition lubrifiante avec des performances ameliores a temperature haute pour la lubrification d'un moteur diesel marin

Publication

**EP 1126010 A1 20010822 (EN)**

Application

**EP 01301248 A 20010214**

Priority

JP 2000034652 A 20000214

Abstract (en)

A lubricating oil composition containing a base oil of lubricating viscosity, overbased sulfurized alkylphenate detergent or its calcium salt, an overbased alkylsulfonate detergent or its calcium salt, an ashless dispersant, and a zinc dialkyldithiophosphate and/or zinc diaryldithiophosphate is described. The lubricating oil composition provides improved heat stability and anti-wear performance in marine diesel engines operated under severe conditions where the cylinder liner temperature reach 200 to 260 DEG C.

IPC 1-7

**C10M 163/00**

IPC 8 full level

**C10M 169/04** (2006.01); **C10M 133/56** (2006.01); **C10M 137/10** (2006.01); **C10M 139/00** (2006.01); **C10M 159/22** (2006.01); **C10M 159/24** (2006.01); **C10M 163/00** (2006.01); **C10N 10/04** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 30/08** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)

**C10M 163/00** (2013.01 - EP US); **C10M 2207/028** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/046** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/52** (2020.05 - EP US); **C10N 2040/252** (2020.05 - EP US); **C10N 2060/10** (2013.01 - EP US); **C10N 2060/14** (2013.01 - EP US); **C10N 2070/02** (2020.05 - EP US)

Citation (search report)

- [X] US 4375418 A 19830301 - ZOLESKI BENJAMIN H, et al
- [A] EP 0331359 A1 19890906 - EXXON CHEMICAL PATENTS INC [US]

Cited by

EP1990400A3; CN107109288A; SG107652A1; CN103710071A; EP1314773A1; CN105814180A; CN106190495A; GB2474986A; GB2474986B; US7678746B2; EP2518135A4; EP2978829A4; WO2016071519A1; WO2015067723A1; WO2015067724A1; US10669506B2; US9434906B2; EP2497817A1; EP2497818A1; CN102676273A; CN102676281A; CN105829513A; US10364403B2; WO2016071518A1; EP1422286B1

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**EP 1126010 A1 20010822**; CA 2336505 A1 20010814; JP 2001226691 A 20010821; JP 4011815 B2 20071121; SG 95628 A1 20030423; US 2001019999 A1 20010906

DOCDB simple family (application)

**EP 01301248 A 20010214**; CA 2336505 A 20010214; JP 2000034652 A 20000214; SG 200100768 A 20010213; US 78029401 A 20010209