Title (en)

LUBRICANT COMPOSITION

Title (de)

SCHMIERMITTELZUSAMMENSETZUNG

Title (fr)

COMPOSITION LUBRIFIANTE

Publication

EP 4310165 A1 20240124 (EN)

Application

EP 22771032 A 20220224

Priority

- JP 2021043791 A 20210317
- JP 2022007511 W 20220224

Abstract (en)

An object is to provide a lubricating oil composition having excellent low-temperature storage stability, excellent copper corrosion resistance, and a high fuel efficiency. Then, this object is achieved by using a lubricating oil composition containing a base oil (A), a molybdenum-based friction modifier (B), and a benzotriazole-based compound (C). The molybdenum-based friction modifier (B) contains a specific compound (B1), a content of the benzotriazole-based compound (C) is 0.03 mass% or less based on a total amount of the lubricating oil composition, and a kinematic viscosity at 100°C of the lubricating oil composition is 9.3 mm²/s or less.

IPC 8 full level

C10M 169/04 (2006.01); **C10M 133/38** (2006.01); **C10M 135/18** (2006.01); C10N 10/12 (2006.01); C10N 30/02 (2006.01); C10N 30/04 (2006.01); C10N 30/08 (2006.01); C10N 30/12 (2006.01)

CPC (source: EP US)

C10M 133/44 (2013.01 - US); **C10M 135/18** (2013.01 - US); **C10M 141/12** (2013.01 - EP); **C10M 169/04** (2013.01 - US); C10M 2207/026 (2013.01 - EP); C10M 2209/084 (2013.01 - EP); C10M 2215/064 (2013.01 - EP); C10M 2215/223 (2013.01 - EP US); C10M 2215/28 (2013.01 - EP); C10M 2219/046 (2013.01 - EP); C10M 2219/068 (2013.01 - EP US); C10M 2223/045 (2013.01 - EP); C10N 2010/12 (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 2030/45 (2020.05 - US); C10N 2030/54 (2020.05 - EP US); C10N 2040/255 (2020.05 - US)

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4310165 A1 20240124; CN 116997640 A 20231103; JP 2022143333 A 20221003; JP 7104200 B1 20220720; US 2024158716 A1 20240516; WO 2022196274 A1 20220922

DOCDB simple family (application)

EP 22771032 A 20220224; CN 202280021587 A 20220224; JP 2021043791 A 20210317; JP 2022007511 W 20220224; US 202218548365 A 20220224