

Title (en)
LUBRICANT OIL COMPOSITION FOR SPARK IGNITION TYPE INTERNAL COMBUSTION ENGINE, METHOD FOR PRODUCING LUBRICANT OIL COMPOSITION, SPARK IGNITION TYPE INTERNAL COMBUSTION ENGINE USING LUBRICANT OIL COMPOSITION, AND METHOD FOR LUBRICATING INTERNAL COMBUSTION ENGINE

Title (de)
SCHMIERÖLZUSAMMENSETZUNG FÜR ZÜNDUNGSVERBRENNUNGSMOTOR, VERFAHREN ZUR HERSTELLUNG DER SCHMIERÖLZUSAMMENSETZUNG, ZÜNDUNGSVERBRENNUNGSMOTOR MIT SCHMIERÖLZUSAMMENSETZUNG UND VERFAHREN ZUM SCHMIEREN EINES VERBRENNUNGSMOTORS

Title (fr)
COMPOSITION D'HUILE LUBRIFIANTE POUR MOTEUR À COMBUSTION INTERNE DE TYPE À ALLUMAGE PAR ÉTINCELLE, SON PROCÉDÉ DE PRODUCTION, MOTEUR À COMBUSTION INTERNE DE TYPE À ALLUMAGE PAR ÉTINCELLE L'UTILISANT, ET PROCÉDÉ DE LUBRIFICATION DE MOTEUR À COMBUSTION INTERNE

Publication
EP 3275980 A1 20180131 (EN)

Application
EP 16768896 A 20160324

Priority
• JP 2015061748 A 20150324
• JP 2016059450 W 20160324

Abstract (en)
Provided are a lubricating oil composition for internal combustion engine capable of preventing a deterioration of the combustion state of a spark-ignition internal combustion engine, specifically, a lubricating oil composition to be used for a spark-ignition internal combustion engine in which a total tension per piston of tensions applied to the piston ring is 100 N or less, the lubricating oil composition being a lubricating oil composition including a base oil, (A) a calcium-based detergent, at least one selected from (B1) a sodium-based additive and (B2) a magnesium-based additive, and (C) an ash-free sulfur-based additive in predetermined contents; a method for producing the lubricating oil composition; a spark-ignition internal combustion engine using the lubricating oil composition; and a method for lubricating the internal combustion engine.

IPC 8 full level
C10M 169/04 (2006.01); **C10M 135/00** (2006.01); **C10M 139/00** (2006.01); **C10N 10/02** (2006.01); **C10N 10/04** (2006.01); **C10N 10/12** (2006.01); **C10N 20/00** (2006.01); **C10N 30/02** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 30/10** (2006.01); **C10N 30/18** (2006.01); **C10N 40/25** (2006.01)

CPC (source: EP US)
C10M 169/04 (2013.01 - EP US); **C10M 169/045** (2013.01 - EP US); **C10M 2207/144** (2013.01 - US); **C10M 2207/262** (2013.01 - EP US); **C10M 2209/084** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/044** (2013.01 - US); **C10M 2219/046** (2013.01 - EP US); **C10M 2219/066** (2013.01 - EP US); **C10M 2219/068** (2013.01 - EP US); **C10M 2219/085** (2013.01 - EP US); **C10M 2219/086** (2013.01 - EP US); **C10M 2219/087** (2013.01 - EP US); **C10M 2219/10** (2013.01 - US); **C10M 2219/104** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10M 2227/09** (2013.01 - US); **C10N 2010/02** (2013.01 - EP US); **C10N 2010/04** (2013.01 - EP US); **C10N 2010/12** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2030/08** (2013.01 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2030/74** (2020.05 - EP US); **C10N 2040/255** (2020.05 - EP US)

Cited by
EP3388500A4; US10781395B2; DE112016005592B4; DE112016005592B9; EP3275978A4; EP3505607A1

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Designated extension state (EPC)
BA ME

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