

Title (en)

VIBRATION RESISTANT INDUSTRIAL GEAR OILS

Title (de)

VIBRATIONSFESTE INDUSTRIELLE GETRIEBEÖLE

Title (fr)

HUILES POUR ENGRENAGES INDUSTRIELS RÉSISTANTES AUX VIBRATIONS

Publication

**EP 3004296 A2 20160413 (EN)**

Application

**EP 14733830 A 20140527**

Priority

- US 201361828717 P 20130530
- US 2014039496 W 20140527

Abstract (en)

[origin: WO2014193782A2] The invention relates to industrial gear oil compositions that have been specially designed to be vibration resistant. That is the industrial gear oil compositions of the invention provide good performance and/or protection even when the equipment in which the composition is used is subjected to external vibration, including but not limited to vibration during transportation of the equipment. The industrial gear oil compositions include a combination of additives that provide surprisingly good protection against damage caused by vibration.

IPC 8 full level

**C10M 141/10** (2006.01); **C10N 40/04** (2006.01)

CPC (source: EP US)

**C10M 137/02** (2013.01 - US); **C10M 137/04** (2013.01 - US); **C10M 137/08** (2013.01 - US); **C10M 141/10** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2205/02** (2013.01 - EP US); **C10M 2207/28** (2013.01 - EP US); **C10M 2209/103** (2013.01 - EP US); **C10M 2215/223** (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10M 2219/022** (2013.01 - EP US); **C10M 2219/024** (2013.01 - EP US); **C10M 2219/106** (2013.01 - EP US); **C10M 2223/04** (2013.01 - EP US); **C10M 2223/043** (2013.01 - EP US); **C10M 2223/045** (2013.01 - EP US); **C10M 2223/047** (2013.01 - EP US); **C10M 2223/049** (2013.01 - EP US); **C10N 2030/76** (2020.05 - EP US); **C10N 2040/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2014193782A2

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

DOCDB simple family (publication)

**WO 2014193782 A2 20141204**; **WO 2014193782 A3 20150122**; CA 2913173 A1 20141204; CN 105247023 A 20160113; EP 3004296 A2 20160413; EP 3004296 B1 20230419; TW 201512391 A 20150401; TW I649417 B 20190201; US 2016122678 A1 20160505

DOCDB simple family (application)

**US 2014039496 W 20140527**; CA 2913173 A 20140527; CN 201480030110 A 20140527; EP 14733830 A 20140527; TW 103118766 A 20140529; US 201414893104 A 20140527