

Title (en)
LUBRICATING OIL COMPOSITION

Title (de)
SCHMIERÖLZUSAMMENSETZUNG

Title (fr)
COMPOSITION D'HUILE DE LUBRIFICATION

Publication
EP 3546549 B1 20221109 (EN)

Application
EP 19157843 A 20190218

Priority
EP 18164161 A 20180327

Abstract (en)
[origin: EP3546549A1] The invention relates to reducing friction coefficient in automotive lubricating oil, in particular although not exclusively at lower temperature by combining molybdenum dithiocarbamate additives with benzotriazole derivative corrosion inhibitors.

IPC 8 full level
C10M 141/08 (2006.01)

CPC (source: CN EP KR US)
C10M 125/22 (2013.01 - KR); **C10M 125/26** (2013.01 - KR); **C10M 129/08** (2013.01 - KR); **C10M 129/16** (2013.01 - KR);
C10M 129/54 (2013.01 - US); **C10M 133/06** (2013.01 - KR); **C10M 133/08** (2013.01 - US); **C10M 133/44** (2013.01 - KR US);
C10M 135/16 (2013.01 - KR); **C10M 135/18** (2013.01 - US); **C10M 137/10** (2013.01 - US); **C10M 137/105** (2013.01 - KR);
C10M 141/08 (2013.01 - EP US); **C10M 141/12** (2013.01 - EP US); **C10M 169/04** (2013.01 - CN KR US); **C10M 2201/066** (2013.01 - KR);
C10M 2207/144 (2013.01 - US); **C10M 2215/042** (2013.01 - CN EP US); **C10M 2215/223** (2013.01 - CN EP US);
C10M 2215/26 (2013.01 - EP US); **C10M 2219/068** (2013.01 - CN EP US); **C10M 2223/045** (2013.01 - US); **C10N 2010/04** (2013.01 - US);
C10N 2010/12 (2013.01 - EP US); **C10N 2020/02** (2013.01 - US); **C10N 2030/04** (2013.01 - KR US); **C10N 2030/06** (2013.01 - CN EP KR US);
C10N 2030/10 (2013.01 - KR); **C10N 2030/12** (2013.01 - KR US); **C10N 2030/54** (2020.05 - KR); **C10N 2040/25** (2013.01 - EP US);
C10N 2040/255 (2020.05 - CN)

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 3546549 A1 20191002; **EP 3546549 B1 20221109**; CA 3038157 A1 20190927; CA 3038157 C 20231107; CN 110305717 A 20191008;
JP 2019173000 A 20191010; JP 7149887 B2 20221007; KR 20190113613 A 20191008; SG 10201902658W A 20191030;
US 2019300810 A1 20191003

DOCDB simple family (application)
EP 19157843 A 20190218; CA 3038157 A 20190327; CN 201910230614 A 20190326; JP 2019059804 A 20190327;
KR 20190033983 A 20190326; SG 10201902658W A 20190326; US 201916357925 A 20190319