

Title (en)

Refrigerator oil composition and fluid composition for refrigerator

Title (de)

Kältemaschinenölzusammensetzung und Kältemittelzusammensetzung für Kältemaschine

Title (fr)

Composition d'huile réfrigérante et composition fluide pour réfrigérateur

Publication

EP 0699742 A2 19960306 (EN)

Application

EP 95112085 A 19950801

Priority

- JP 20132294 A 19940803
- JP 20132394 A 19940803

Abstract (en)

A refrigerator oil for use with an HFC refrigerant containing HFC-134a and/or HFC-125, which comprises: (A) 70 to 99% by weight of an alkylbenzene oil containing at least 60% by weight (based on the total weight of the component (A)) of alkylbenzenes having a molecular weight of 200 to 350 and (B) 30 to 1% by weight of a synthetic oil containing oxygen. There is also proposed a refrigerator fluid composition comprising the above-mentioned refrigerator oil and an HFC refrigerant containing HFC-134a and/or HFC-125, together with or without an additive such as a phosphorus compound. <MATH>

IPC 1-7

C10M 171/00; C10M 169/04; C09K 5/04

IPC 8 full level

C10M 169/04 (2006.01); **C10M 171/00** (2006.01)

CPC (source: EP)

C10M 105/06 (2013.01); **C10M 105/32** (2013.01); **C10M 105/48** (2013.01); **C10M 107/34** (2013.01); **C10M 129/10** (2013.01); **C10M 129/18** (2013.01); **C10M 129/24** (2013.01); **C10M 129/66** (2013.01); **C10M 129/68** (2013.01); **C10M 133/12** (2013.01); **C10M 137/04** (2013.01); **C10M 137/08** (2013.01); **C10M 137/10** (2013.01); **C10M 169/04** (2013.01); **C10M 171/008** (2013.01); C10M 2203/06 (2013.01); C10M 2203/065 (2013.01); C10M 2207/023 (2013.01); C10M 2207/024 (2013.01); C10M 2207/026 (2013.01); C10M 2207/027 (2013.01); C10M 2207/042 (2013.01); C10M 2207/08 (2013.01); C10M 2207/125 (2013.01); C10M 2207/129 (2013.01); C10M 2207/24 (2013.01); C10M 2207/28 (2013.01); C10M 2207/2805 (2013.01); C10M 2207/281 (2013.01); C10M 2207/282 (2013.01); C10M 2207/283 (2013.01); C10M 2207/286 (2013.01); C10M 2207/302 (2013.01); C10M 2207/304 (2013.01); C10M 2207/32 (2013.01); C10M 2207/325 (2013.01); C10M 2207/34 (2013.01); C10M 2207/345 (2013.01); C10M 2209/00 (2013.01); C10M 2209/02 (2013.01); C10M 2209/10 (2013.01); C10M 2209/103 (2013.01); C10M 2209/1033 (2013.01); C10M 2209/104 (2013.01); C10M 2209/1045 (2013.01); C10M 2209/105 (2013.01); C10M 2209/1055 (2013.01); C10M 2209/106 (2013.01); C10M 2209/1065 (2013.01); C10M 2209/107 (2013.01); C10M 2209/1075 (2013.01); C10M 2209/1085 (2013.01); C10M 2209/1095 (2013.01); C10M 2211/022 (2013.01); C10M 2211/06 (2013.01); C10M 2211/08 (2013.01); C10M 2215/06 (2013.01); C10M 2215/064 (2013.01); C10M 2215/065 (2013.01); C10M 2215/066 (2013.01); C10M 2215/067 (2013.01); C10M 2215/068 (2013.01); C10M 2215/22 (2013.01); C10M 2215/221 (2013.01); C10M 2215/225 (2013.01); C10M 2215/226 (2013.01); C10M 2215/30 (2013.01); C10M 2223/04 (2013.01); C10M 2223/041 (2013.01); C10M 2223/042 (2013.01); C10M 2223/043 (2013.01); C10M 2223/045 (2013.01); C10N 2010/04 (2013.01); C10N 2040/00 (2013.01); C10N 2040/30 (2013.01); C10N 2040/32 (2013.01); C10N 2040/34 (2013.01); C10N 2040/36 (2013.01); C10N 2040/38 (2020.05); C10N 2040/40 (2020.05); C10N 2040/42 (2020.05); C10N 2040/44 (2020.05); C10N 2040/50 (2020.05)

Citation (applicant)

- US 4755316 A 19880705 - MAGID HILLEL [US], et al
- JP H01198694 A 19890810 - IDEMITSU KOSAN CO
- JP H01256594 A 19891013 - NIPPON OIL CO LTD
- JP H01259093 A 19891016 - KYOSEKI SEIHIN GIJUTSU KENK, et al
- JP H01259094 A 19891016 - KYOSEKI SEIHIN GIJUTSU KENK, et al
- JP H01259095 A 19891016 - KYOSEKI SEIHIN GIJUTSU KENK, et al
- JP H01274191 A 19891101 - CANON KK
- JP H0243290 A 19900213 - NIPPON OIL CO LTD [JP]
- JP H0255791 A 19900226 - BP CHEM INT LTD
- JP H0284491 A 19900326 - NIPPON OIL CO LTD
- JP H03505602 A 19911205
- JP H0388892 A 19910415 - KAO CORP
- JP H02128991 A 19900517 - NIPPON DENSO CO
- JP H03128992 A 19910531 - KYOSEKI SEIHIN GIJUTSU KENK
- JP H03200895 A 19910902 - NIPPON OIL CO LTD
- JP H03227397 A 19911008 - ASAHI DENKA KOGYO KK
- JP H0420597 A 19920124 - NIPPON OIL CO LTD
- JP H0472390 A 19920306 - IDEMITSU KOSAN CO
- JP H04218592 A 19920810 - HOECHST AG
- JP H04249593 A 19920904 - UNIHIMA HIEMII BV
- JP H05157379 A 19930622 - MITSUBISHI ELECTRIC CORP

Cited by

US6193906B1; US6322719B2; EP0882780A4; US7208098B2; CN100366713C; EP2319907A1; EP0861883A3; US6991744B2; US6962665B2; US7176169B2; WO2016206246A1; WO03050200A1; WO02070637A1; WO0246328A3; US6569347B1; US8999191B2; US6516837B2; US6640841B2

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0699742 A2 19960306; EP 0699742 A3 19960515; EP 0699742 B1 19990519; BR 9503535 A 19960604; CA 2155166 A1 19960204;
CA 2155166 C 20050426; DE 69509716 D1 19990624; DE 69509716 T2 19991202; ES 2131240 T3 19990716; KR 100195604 B1 19990615

DOCDB simple family (application)

EP 95112085 A 19950801; BR 9503535 A 19950803; CA 2155166 A 19950801; DE 69509716 T 19950801; ES 95112085 T 19950801;
KR 19950023783 A 19950802