Amended claims

1. A fuel oil composition comprising a low-sulfur marine diesel having a sulfur content of less than 1% by weight and

(A) at least one ethylene copolymer containing, as well as ethylene, 8.0 to 17 mol% of one or more vinyl and/or (meth)acrylic esters, and

(B) at least one comb polymer (B) comprising structural units B1 which derive from C_{10}-C_{28}-alkyl esters of unsaturated mono- and dicarboxylic acids, C_{10}-C_{28}-alkyl vinyl esters, C_{10}-C_{28}-alkyl vinyl ethers, C_{10}-C_{28}-alkyl allyl ethers and/or linear C_{12}-C_{30}-α-olefins, and wherein at least 20 mol% of the alkyl radicals bonded to the repeat structural units (B1) have 12 to 16 carbon atoms and at least 5 mol% of the alkyl radicals have 18 or more carbon atoms, in which the untreated low-sulfur marine diesel has a pour point of +6°C or higher.

2. The fuel oil composition as claimed in claim 1, in which the low-sulfur marine diesel has a viscosity of not more than 200 mm²/s at 40°C.

3. The fuel oil composition as claimed in claim 1 and/or 2, in which the low-sulfur marine diesel has a viscosity of not more than 11 mm²/s at 40°C.

4. The fuel oil composition as claimed in one or more of claims 1 to 3, in which the low-sulfur marine diesel comprises a residue from the further processing of a mineral oil distillate.

5. The fuel oil composition as claimed in one or more of claims 1 to 4, in which the low-sulfur marine diesel has a sulfur content of 0.1% by weight or lower.

6. The fuel oil composition as claimed in one or more of claims 1 to 5, wherein the residue from the further processing of a mineral oil distillate which is used for production of the low-sulfur marine diesel contains at least 3% by weight of paraffins having more than 24 carbon atoms.

7. The fuel oil composition as claimed in one or more of claims 1 to 6, wherein the residue from the further processing of a mineral oil distillate which is used for production of the low-sulfur marine diesel has a pour point of 9°C or higher.

8. The fuel oil composition as claimed in one or more of claims 1 to 7, wherein the ethylene copolymer (A) contains, as well as ethylene and 8.0 to 17 mol% of one or more vinyl and/or (meth)acrylic esters, also 0.1 to 5 mol% of one or more olefins having 3-8 carbon atoms.

9. The fuel oil composition as claimed in claim 8, in which the olefin is propene.

10. The fuel oil composition as claimed in one or more of claims 1 to 9, in which the ethylene copolymer (A) contains one or more vinyl esters derived from carboxylic acids having 3 to 12 carbon atoms.

11. The fuel oil composition as claimed in claim 10, in which the vinyl ester is vinyl acetate.

12. The fuel oil composition as claimed in one or more of claims 1 to 11, in which the number-average molecular weight M_n of the ethylene copolymer (A) is between 1000 and 7000 g/mol.

13. The fuel oil composition as claimed in one or more of claims 1 to 12, wherein the comb polymer (B) includes at least 40 mol% of repeat structural units (B1) that bear C_{10}-C_{28}-alkyl radicals.

14. The fuel oil composition as claimed in one or more of claims 1 to 13, wherein the sum S

$$S = \frac{(m_1 \cdot p_1 \cdot \sum_i w_{1i} \cdot n_{1i} + m_2 \cdot p_2 \cdot \sum_j w_{2j} \cdot n_{2j} + ... + m_g \cdot p_g \sum_p w_{gp} \cdot n_{gp})}{(m_1 \cdot p_1 + m_2 \cdot p_2 + ... + m_g \cdot p_g)}$$

of the molar averages of the carbon chain length distributions in the alkyl radicals of the structural units (B1) is 15.0 to 20.0, in which

$m_1, m_2, ... m_g$ are the mole fractions of the abovementioned monomers in the polymer (B), where the sum of the mole fractions m_1 to $m_g = 1$,

$p_1; p_2; \ldots p_g$ is the number of alkyl radicals per monomer unit and is an integer of 1, 2 or 3,

$w_{1i}, w_{1j}..w_{2i}, w_{2j}...w_{gp}$ are the proportions by weight of the individual chain lengths i, j, ... p of the alkyl radicals of the various monomers (B) 1 to g in the polymer, and

$n_{1i}, n_{1j}..n_{2i}, n_{2j}...n_{gp}$ are the chain lengths of the alkyl radicals i, j, ... p of the monomers in the polymer (B) 1 to g.

15. The fuel oil composition as claimed in one or more of claims 1 to 14, wherein the carbon chain length distribution in the alkyl radicals of the structural units (B1) is implemented in one polymer.

16. The fuel oil composition as claimed in one or more of claims 1 to 15, wherein the carbon chain length distribution in the alkyl radicals of the structural units (B1) is implemented by mixing two or more polymers.

17. The fuel oil composition as claimed in one or more of claims 1 to 16, wherein the comb polymer (B) contains 1 to 60 mol% of repeat structural units (B2) other than the structural units (B1).

18. The fuel oil composition as claimed in claim 17, wherein the repeat structural units (B2) derive from unsaturated mono- and dicarboxylic acids or their C_1- to C_9-

alkyl esters, C_1-C_9-alkyl vinyl esters, C_1-C_9-alkyl vinyl ethers, C_1-C_9-alkyl allyl ethers, linear C_3-C_8-α-olefins and/or branched C_4-C_{50}-olefins.

19. The fuel oil composition as claimed in one or more of claims 1 to 18, in which the number-average molecular weight of the comb polymers (B) is between 1000 and 100 000 g/mol.

20. The fuel oil composition as claimed in one or more of claims 1 to 19, in which the comb polymers (B) are selected from

a) homo- and copolymers of C_{10}-C_{28}-alkyl vinyl esters, C_{10}-C_{28}-alkyl vinyl ethers and unsaturated C_{10}-C_{28}-alkyl monocarboxylates,
b) copolymers, esterified with C_{10}-C_{28}-alcohols, of unsaturated dicarboxylic acids or anhydrides thereof with C_{12}-C_{30}-α-olefins, C_{10}-C_{28}-alkyl acrylates, C_{10}-C_{28}-alkyl methacrylates, C_{10}-C_{28}-alkyl vinyl esters and/or C_{10}-C_{28}-alkyl vinyl ethers,
c) C_{10}-C_{28}-alkyl fumarate-C_1-C_5-alkyl vinyl ester copolymers and
d) polymers of C_{12}-C_{30}-α-olefins.

21. The fuel oil composition as claimed in one or more of claims 17 to 20, in which the monomers B1 and B2 in the comb polymer (B) add up to 100 mol%.

22. The fuel oil composition as claimed in one or more of claims 1 to 21, containing a sum total of 0.001% to 2% by weight of the additive components (A) and (B).

23. The fuel oil composition as claimed in one or more of claims 1 to 22, wherein the fuel oil composition contains, per part by weight of the ethylene copolymer A), 0.05 to 20 parts by weight of the comb polymer B).

24. The fuel oil composition as claimed in one or more of claims 1 to 23, containing, based on the total amount of A) and B), less than 10% by weight of a nitrogen compound effective as a paraffin dispersant in middle distillates.

25. The use of an additive comprising constituents (A) and (B) as described in one or more of claims 1 and 7 to 23 for dispersion of the paraffins that precipitate out of low-sulfur marine diesel having a sulfur content of less than 1% by weight and having, in untreated form, a pour point of +6°C or higher, on storage below the cloud point.

26. The use as claimed in claim 25, wherein a total of between 10 and 20 000 ppm by weight of additive components (A) and (B) are added to the low-sulfur marine diesel.

27. The use of a comb polymer (B) for dispersion of the paraffins that precipitate out of a low-sulfur marine diesel containing at least one ethylene copolymer (A) below the cloud point, in which
the ethylene copolymer (A) contains, as well as ethylene, 8.0 to 17 mol% of one or more vinyl and/or (meth)acrylic esters, and
the comb polymer (B) comprises structural units B1 which derive from C_{10}-C_{28}-alkyl esters of unsaturated mono- and dicarboxylic acids, C_{10}-C_{28}-alkyl vinyl esters, C_{10}-C_{28}-alkyl vinyl ethers, C_{10}-C_{28}-alkyl allyl ethers and/or linear C_{12}-C_{30}-α-olefins, and wherein at least 20 mol% of the alkyl radicals bonded to the repeat structural units (B1) have 12 to 16 carbon atoms and at least 5 mol% of the alkyl radicals have 18 or more carbon atoms, and
in which the untreated low-sulfur marine diesel has a pour point of +6°C or higher.

28. The fuel oil composition as claimed in any of claims 1 to 24, wherein the low-sulfur marine diesel contains not more than 5% by weight of a residue from the processing of a desulfurized heavy gas oil.

29. A method of dispersing paraffins which precipitate out of low-sulfur marine diesel having a sulfur content of 1% by weight or lower on storage at temperatures below the cloud point, by adding to the low-sulfur marine diesel an ethylene copolymer (A) and a comb polymer (B) as described in one or more of claims 7 to

23, and in which the untreated low-sulfur marine diesel has a pour point of +6°C or higher.

30. A method of dispersing paraffins which precipitate out of a low-sulfur marine diesel having a sulfur content of 1% by weight or lower on storage below the cloud point, wherein the low-sulfur marine diesel contains an ethylene copolymer (A), by adding a comb polymer (B) as described in one or more of claims 13 to 21, in which the untreated low-sulfur marine diesel has a pour point of +6°C or higher, and in which the ethylene copolymer (A) contains, as well as ethylene, 8.0 to 17 mol% of one or more vinyl and/or (meth)acrylic esters.