Claims

1. A lubricant composition, comprising:

(A) 30 to 80% by weight of a polyalphaolefin having a kinematic viscosity at 100°C according to ASTM D445 of 1 to 10 mm^2/s; and

(B) 20 to 70% by weight of a comb polymer,

based on the total weight of the lubricant composition,

wherein the comb polymer comprises the following monomers:

(a) 20 to 35% by weight of esters of (meth)acrylic acid and a hydroxylated hydrogenated polybutadiene; and

(b) 0.2% by weight to 15% by weight of styrene,

(c) 0.2 to 20% by weight of alkyl methacrylates having 12 to 15 carbon atoms in the alkyl chain,

(d) 50 to 70% by weight of alkyl (meth)acrylates having 1 to 4 carbon atoms in the alkyl chain,

based on the total weight of the comb polymer.

2. The lubricant composition according to claim 1, wherein the lubricant composition has a ratio of the kinematic viscosity of the lubricant composition at -20°C (KV_{-20}) to the kinematic viscosity at +20°C (KV_{+20}), KV_{-20}/KV_{+20}, of 8 or less, wherein the kinematic viscosities are measured according to ASTM D445.

3. The lubricant composition according to claim 1 or 2, wherein the synthetic base oil (A) is a polyalphaolefin having a kinematic viscosity at 100°C according to ASTM D445 of 1 to 5 mm^2/s.

4. The lubricant composition according to claim 1 or 2, wherein the synthetic base oil (A) is a polyalphaolefin having a kinematic viscosity at 100°C according to ASTM D445 of 2 to 3 mm^2/s.

5. The lubricant composition according to any one of the preceding claims, wherein the hydroxylated hydrogenated polybutadiene of component (a) has a number-average molecular weight M_n to DIN 55672-1 of 4.000 to 5.000 g/mol.

6. The lubricant composition according to any one of the preceding claims, wherein the comb polymer (B) comprises:

(a) 25 to 30%by weight of esters of (meth)acrylic acid and a hydroxylated hydrogenated polybutadiene,

(b) 0.2 to 15% by weight of styrene,

(c) 0.2 to 15% by weight of alkyl methacrylates having 12 to 14 carbon atoms in the alkyl chain,

(d) 50 to 65% by weight of butylmethacrylate, and

(e) 0.1 to 0.2% by weight of methylmethacrylate,

based on the total weight of the comb polymer.

7. Use of a comb polymer, comprising:

(a) 20 to 35% by weight of esters of (meth)acrylic acid and a hydroxylated hydrogenated polybutadiene,

(b) 0.2 to 15% by weight of styrene,

(c) 0.2 to 20% by weight of alkyl methacrylates having 12 to 15 carbon atoms in the alkyl chain,

(d) 50 to 65% by weight of alkyl (meth)acrylates having 1 to 4 carbon atoms in the alkyl chain,

based on the total weight of the comb polymer,

as an additive for a polyalphaolefin base oil having a kinematic viscosity at 100°C according to ASTM D445 of 1 to 10 mm^2/s to produce a lubricant composition having an R-factor of less than or equal to 8, wherein the R-factor is defined as the ratio of the kinematic viscosity of the lubricant composition at -20°C to the kinematic viscosity at +20°C measured according to ASTM D445.

8. The use according to claim 7, wherein the base oil is a polyalphaolefin base oil having a kinematic viscosity at 100°C according to ASTM D445 of 1 to 5 mm^2/s.

9. The use according to claim 7, wherein the base oil is a polyalphaolefin base oil having a kinematic viscosity at 100°C according to ASTM D445 of 2 to 3 mm^2/s.

10. The use according to claims 7 to 9, wherein the lubricant composition has an R-factor of 1 to 8.

11. The use according to claims 7 to 10, wherein the comb polymer (B) comprises:

(a) 25 to 30%by weight of esters of (meth)acrylic acid and a hydroxylated hydrogenated polybutadiene,

(b) 0.2 to 15% by weight of styrene,

(c) 0.2 to 15% by weight of alkyl methacrylates having 12 to 14 carbon atoms in the alkyl chain,

(d) 50 to 65% by weight of butylmethacrylate, and

(e) 0.1 to 0.2% by weight of methylmethacrylate,

based on the total weight of the comb polymer.