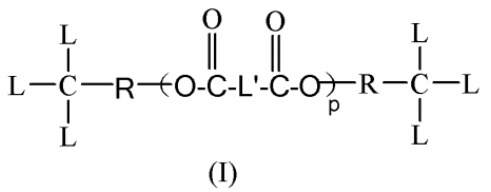
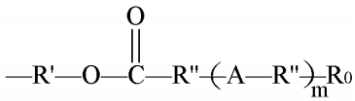
CLAIMS

1. An ester compound, which has a structure as shown in formula (I):



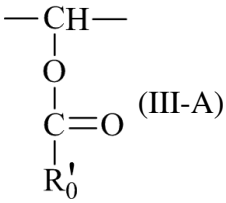
(I)

wherein, the L' groups, identical to or different from each other, are each independently selected from C_{1-16} linear or branched alkylene (preferably C_{2-10} linear or branched alkylene);
the R groups, are each independently a single bond;
p is 0;
the L groups, identical to or different from each other, are each independently selected from a hydrogen atom, an optionally substituted C_{1-10} linear or branched alkyl, a group represented by formula (III), wherein at least two L groups are selected from a group represented by formula (III),



(III)

in the formula (III), the R' group is selected from a C_{1-10} linear or branched alkylene, and the carbon atoms bonded to L are at most directly bonded to one oxygen atom, the R" groups, identical to or different from each other, are each independently selected from a C_{1-10} linear or branched alkylene; the R_0 group is selected from an optionally substituted C_{1-10} linear or branched alkyl; m is an integral number of 1; m A group, is a group represented by formula (III-A);



(III-A)

the R_0' groups, at each occurrence, are each independently selected from an optionally substituted C_{1-15} linear or branched alkyl,
said substituents that optionally substitute are selected from halogen atoms, hydroxy, amino, C_{1-6} linear or branched alkyl, C_{6-10} aryl, C_{3-10} cycloalkyl,
none of three L groups connected to one terminal carbon atom is a group represented by formula (III), three L groups connected to the other terminal carbon atom are each independently selected from a group represented by formula (III).

2. The ester compound according to claim 1, wherein the L groups, identical to or different from each other, are each independently selected from a hydrogen atom, an optionally substituted C_{1-6} linear or branched alkyl, a group represented by formula (III), wherein at least two L groups are selected from a group represented by formula (III).

3. The ester compound according to claim 1, wherein in the formula (III), the R' group is selected from a C_{1-6} linear or branched alkylene.

4. The ester compound according to claim 1, wherein the R" groups, identical to or different from each other, are each independently selected from a C_{1-8} linear or branched alkylene.

5. The ester compound according to claim 1, wherein the R" groups, identical to or different from each other, are each independently selected from a C_{1-6} linear or branched alkylene.

6. The ester compound according to claim 1, wherein the R_0 group is selected from an optionally substituted C_{1-6} linear or branched alkyl.

7. The ester compound according to claim 1, wherein the R_0' groups, at each occurrence, are each independently selected from an optionally substituted C_{1-11} linear or branched alkyl.

8. A lubricating oil composition, which comprises the ester compound according to any of claims 1-7, and a lubricating base oil, relative to the total mass of the lubricating oil composition, the content of said ester compound is 0.01%-50%, further optionally 0.05%-30%, further optionally 0.1%-25%, further optionally 0.5%-20%.