What is claimed is:

1. A lubricating composition comprising;
    a) an oil of lubricating viscosity, and
    b) a reaction product of a Lewis acid comprising a tetravalent D-block transition metal and a hydroxyl terminated polyether, wherein the mole ratio of the hydroxyl terminated polyether to the inorganic Lewis acid is 1:1 or greater.

2. The lubricating composition of claim 1, wherein the reaction product is represented by the formula $M_x(PE)_nL_m$ wherein:
    M is the inorganic Lewis acid,
    x is 1,
    PE is selected from the group consisting of a hydroxide terminated polyether, an alkoxide terminated polyether and blends thereof,
    n is 1 to 4,
    L is selected from the group consisting of hydrocarbyl alcohols, hydrocarbyl alkoxides, hydroxides, halides, hydrocarbyl carboxylates and nitrates, and
    m is 4-n.

3. The lubricating composition of claim 2, wherein M comprises at least one of titanium, chromium, iron, copper, or zinc.

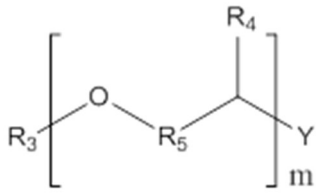
4. The lubricating composition of claim 1, wherein the reaction product is present at 0.05 wt % to 5 wt % of the lubricating composition.

5. The lubricating composition of claim 1, wherein the hydroxyl terminated polyether is a homopolymer or a copolymer.

6. The lubricating composition of claim 5, wherein the hydroxyl terminated polyether is a copolymer comprising (i) 0.1 wt % to 80 wt % with respect to the hydroxyl terminated

polyether of ethylene glycol or its oxide, and (ii) 20 wt % to 99.9 wt % of an alkylene glycol or its oxide containing 3 to 8 carbon atoms.

7. The lubricating composition of claim 1, wherein the hydroxyl terminated polyether is a copolymer according to Formula I:



Formula I

wherein:

R_3 is hydrogen (H), -R_6OH, -R_6NH_2, -(C=O)R_6, -R_6-N(H)C(=O)R_6, or a hydrocarbyl group of from 1 to 30, or 1 to 20, or 1 to 15 carbon atoms,

each R_4 is independently selected from H, or a hydrocarbyl group of from 1 to 10 carbon atoms,

each R_5 is independently selected from a straight or branched hydrocarbyl group of from 1 to 6 carbon atoms,

R_6 is a hydrocarbyl group of 1 to 20 carbon atoms,

Y is -NR_7R_8, -OH, -R_6NH_2 or -R_6OH,

R_7, and R_8, independently, is H, or a hydrocarbyl group of from 1 to 50 carbon atoms in which up to one third of the carbon atoms is substituted by N or functionalized with additional polyether of Formula I, and

m is an integer from 2 to 50,

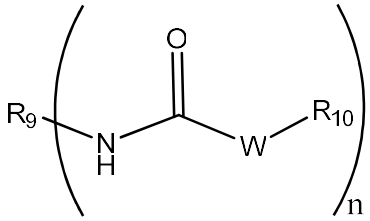
with the proviso that at least one of R_3 or Y is selected to form a terminal hydroxyl group.

8. The lubricating composition of claim 1, further comprising a corrosion inhibitor.

9. The lubricating composition of claim 8, wherein the corrosion inhibitor comprises a sulphur-containing corrosion inhibitor.

10. The lubricating composition of claim 9, wherein the sulphur-containing corrosion inhibitor comprises an ashless thiocarbamate compound having an optionally-substituted hydrocarbyl group on an S-atom and an optionally-substituted hydrocarbyl group on an N-atom.

11. The lubricating composition of claim 10, wherein the sulphur-containing corrosion inhibitor comprises an ashless thiocarbamate compound having an optionally-substituted hydrocarbyl group on an S-atom and an optionally-substituted hydrocarbyl group on an N-atom represented by the formula:



wherein

n is 1 or 2;

W is oxygen or sulphur, provided that when n = 1, W is sulphur, and when n = 2, at least one W is sulphur;

R_9 is an optionally-substituted hydrocarbyl group, with the proviso that R_9 is free of a nitrogen-containing heterocycle; and

R_{10} is an optionally-substituted hydrocarbyl group or an optionally-substituted hydrocarbylene group.

12. The lubricating composition of claim 8, wherein the corrosion inhibitor is present at 0.01 wt % to 5 wt % of the lubricating composition.

13. The lubricating composition of claim 1, further comprising an overbased detergent.

14. The lubricating composition of claim 13, further comprising a sulphur-containing corrosion inhibitor, wherein the sulphur-containing corrosion inhibitor comprises an ashless

thiocarbamate compound having an optionally-substituted hydrocarbyl group on an S-atom and an optionally-substituted hydrocarbyl group on an N-atom.

15. The lubricating composition of claim 3, wherein M comprises titanium.