**CLAIMS**

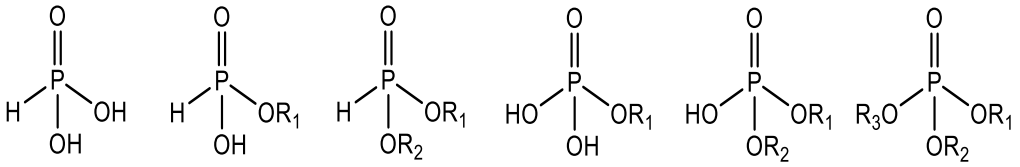
What is claimed is:

1. A transmission fluid composition comprising:

a major amount of a lubricating oil basestock; and

a minor amount of an additive package comprising:

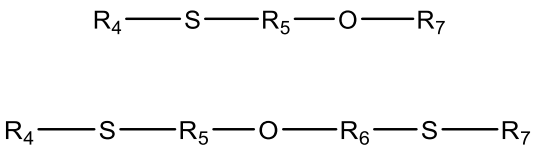
(i) a mixture comprising two or more compounds of structures (I):



(I);

where groups $R_1$, $R_2$ and $R_3$ are independently alkyl groups having 1 to 18 carbon atoms or alkyl groups having 1 to 18 carbon atoms where the alkyl chain is interrupted by a thioether linkage, provided that, in the mixture (i), at least some of groups $R_1$, $R_2$ and $R_3$ are alkyl groups having 1 to 18 carbon atoms where the alkyl chain is interrupted by a thioether linkage;

(ii) one or more compounds of structures (II):



(II)

where groups $R_4$ and $R_7$ are independently alkyl groups having 1 to 12 carbon atoms and $R_5$ and $R_6$ are independently alkyl linkages having 2 to 12 carbon atoms;

(iii) one or more zinc dihydrocarbyl dithiophosphate compounds; and

(iv) one or more oil-soluble or dispersible molybdenum-containing compounds,

wherein the compounds of component (i) and component (ii) are each present in the composition in an amount from 0.1 to 2.0% by mass, based on the total mass of the composition; and wherein component (iii) is present in the composition in an amount from 0.4 to 5.0% by mass, based on the total mass of the composition.

2. A transmission fluid composition according to claim 1, wherein the compounds of component (i) and component (ii) are each present in the composition in an amount from 0.1 to 1.2% by mass, or from 0.1 to 0.8% by mass, or from 0.2 to 0.6% by mass, based on the total mass of the composition.

3. A transmission fluid composition according to claim 1 or claim 2, wherein the compounds of component (i) and component (ii) are present in the composition in a mass ratio of from 2:1 to 1:2, or from 3:2 to 2:3, or from 4:3 to 3:4.

4. A transmission fluid composition according to any preceding claim, wherein component (iii) is present in the composition in an amount from 0.6 to 3.5% by mass, or from 1.0 to 3.0% by mass, or from 1.2 to 2.5% by mass, based on the total mass of the composition.

5. A transmission fluid composition according to any preceding claim, wherein component (iii) provides the composition with 400 to 4500 parts per million by mass (ppm) of zinc, or from 500 to 2500 ppm of zinc, or from 750 to 2000 ppm of zinc, or from 800 to 1600 ppm of zinc, based on the total mass of the composition.

6. A transmission fluid composition according to any preceding claim, wherein component (iv) is present in the composition in an amount from 0.1 to 2.0% by mass, or from 0.1 to 1.5% by mass, or from 0.2 to 1.2% by mass, or from 0.2% to 0.8% by mass, based on the total mass of the composition.

7. A transmission fluid composition according to any preceding claim, wherein component (iv) provides the composition with from 50 to 1000 parts per million by mass (ppm) of molybdenum, or from 50 to 800 ppm of molybdenum, or from 100 to 650 ppm of molybdenum, or from 100 to 500 ppm of molybdenum, based on the total mass of the composition.

8. A transmission fluid composition according to any preceding claim, wherein component (iv) comprises a molybdenum dithiocarbamate, a molybdenum dialkyldithiophosphate, a molybdenum alkyl xanthate, a molybdenum alkyl thioxanthate, or a combination thereof.

9. A transmission fluid composition according to any preceding claim, wherein component (iv) comprises substantially no molybdenum dialkyldithiophosphate.

10. A transmission fluid composition according to any preceding claim, wherein component (iv) is a di-nuclear or a tri-nuclear molybdenum compound.

11. A transmission fluid composition according to any preceding claim, further comprising one or more ashless dispersants, a calcium-containing detergent, or a combination thereof.

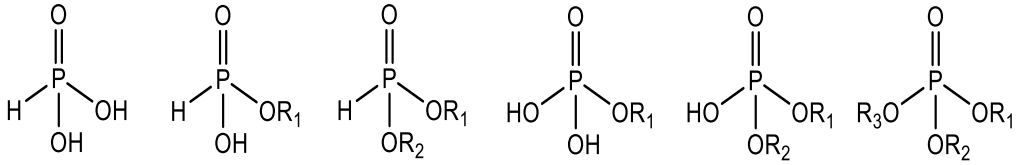
12. A method of controlling or reducing wear in a manual transmission, the method comprising lubricating the transmission with a transmission fluid composition according to any preceding claim.

13. The use of the combination of:

a major amount of a lubricating oil basestock; and

a minor amount of an additive package comprising:

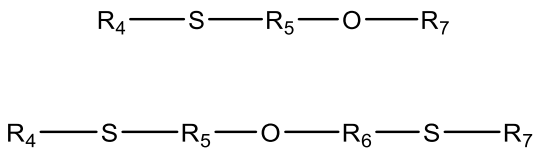
(i) a mixture comprising two or more compounds of structures (I):




(I);

where groups $R_1$, $R_2$ and $R_3$ are independently alkyl groups having 1 to 18 carbon atoms or alkyl groups having 1 to 18 carbon atoms where the alkyl chain is interrupted by a thioether linkage, provided that, in the mixture (i), at least some of groups $R_1$, $R_2$ and $R_3$ are alkyl groups having 1 to 18 carbon atoms where the alkyl chain is interrupted by a thioether linkage;

(ii) one or more compounds of structures (II):




(II)

where groups $R_4$ and $R_7$ are independently alkyl groups having 1 to 12 carbon atoms and $R_5$ and $R_6$ are independently alkyl linkages having 2 to 12 carbon atoms;

(iii) one or more zinc dihydrocarbyl dithiophosphate compounds; and

(iv) one or more oil-soluble or dispersible molybdenum-containing compounds,

in a transmission fluid composition to control or reduce the wear in a transmission lubricated by the composition,

wherein the compounds of component (i) and component (ii) are each present in the composition in an amount from 0.1 to 2.0% by mass, based on the total mass of the composition; and wherein component (iii) is present in the composition in an amount from 0.4 to 5.0% by mass, based on the total mass of the composition.