CLAIMS:

1. A lubricating composition comprising in admixutre:

at least 45 wt. % of a Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition, with the Group V base oil component having a kinematic viscosity of less than 20 cSt at 100°C; and

from 10 wt. % to 60 wt. % of a polyolefin base oil component, based on the total weight of the blend components that are used to produce the lubricating composition, with the polyolefin base oil component having a kinematic viscosity of at least 500 cSt and not greater than 4000 cSt at 100°C.

2. The lubricating composition of claim 1, wherein the lubricating composition is comprised of not greater than 85 wt. % of the Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition.

3. The lubricating composition of claim 1, wherein the lubricating composition is comprised of from 50 wt. % to 85 wt. % of the a Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition.

4. The lubricating composition of claim 1, wherein the Group V base oil component is one or more Group V base stocks selected from the group consisting of alkylated aromatics and esters.

5. The lubricating composition of claim 1, wherein the Group V base oil component has an aniline point of at least -5°C.

6. The lubricating composition of claim 1, wherein the Group V base oil component has a hygroscopicity less than that of glycol.

7. The lubricating composition of claim 1, wherein the Group V base oil component contains not greater than 20 wt % total glycol and polyglycol compounds, based on the total weight of the blend components that are used to produce the Group V base oil component.

8. The lubricating composition of claim 1, wherein the polyolefin base oil component has a M_w of about 200,000 or less.

9. The lubricating composition of claim 1, wherein the polyolefin base oil component has a MWD of greater than 1 and less than 5.

10. The lubricating composition of claim 1, wherein the polyolefin base oil component is comprised of less than 5 wt % of polyolefin with C_{20} or lower carbon numbers.

11. The lubricating composition of claim 1, wherein the lubricant composition is comprised of a blend of components containing not greater than 5 wt % of any of a Group I-III base oil component.

12. The lubricating composition of claim 1, wherein the lubricating composition has a kinematic viscosity of from 135 cSt to 7,500 cSt at 40° C.

13. The lubricating composition of claim 1, wherein the lubricating composition has an ISO VG grade of from 150 to 6,800.

14. The lubricating composition of claim 1, wherein the Group V base oil component and polyolefin base oil component together comprise at least 90 wt. % of the lubricating composition.

15. A method for producing a lubricating composition, comprising blending together at least the following blend components:

at least 45 wt. % of a Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition, with the Group V base oil component having a kinematic viscosity of less than 20 cSt at 100°C; and

from 10 wt. % to 60 wt. % of a polyolefin base oil component, based on the total weight of the blend components that are used to produce the lubricating composition, with the polyolefin base oil component having a kinematic viscosity of at least 500 cSt and not greater than 4000 cSt at 100°C.

16. The method of claim 15, wherein the blend components are comprised of not greater than 85 wt. % of the Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition.

17. The method of claim 15, wherein the blend components are comprised of from 50 wt. % to 85 wt. % of the Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition.

18. The method of claim 15, wherein the Group V base oil component has an aniline point of at least -5°C.

19. The method of claim 15, wherein the Group V base oil component has a hygroscopicity less than that of glycol.

20. The method of claim 15, wherein the Group V base oil component contains not greater than 20 wt % total glycol and polyglycol compounds, based on the total weight of the blend components that are used to produce the Group V base oil component.

21. The method of claim 15, wherein the lubricating composition is produced from a blend of components containing not greater than 5 wt % of any of a Group I-III base oil component.

22. The method of claim 15, wherein the Group V base oil component and polyolefin base oil component together comprise at least 90 wt. % of the lubricating composition.

Claims:

1. A lubricating composition comprising in admixture:

at least 45 wt. % and up to 75 wt. % of a Group V base oil component comprising alkylated naphthalenes, based on the total weight of the blend components that are used to produce the lubricating composition, with the Group V base oil component having a kinematic viscosity of 5 to less than or equal to 12 cSt at 100° C.; and

from 24.55 wt. % to 45 wt. % of a polyolefin base oil component, based on the total weight of the blend components that are used to produce the lubricating composition, with the polyolefin base oil component including one or more PAO base stocks having a kinematic viscosity of at least 150 cSt and not greater than 2000 cSt at 100° C.,

wherein the Group V base oil component and polyolefin base oil component together comprise at least 90 wt. % of the lubricating composition, and

wherein the lubricating composition yields a gear box efficiency in a worm drive gear box at least 1.8% greater than a similar lubricating composition including alkylated naphthalene at less than 45 wt. %.

2. The lubricating composition of claim 1, wherein the lubricating composition is comprised of from 50 wt. % to 75 wt. % of the a Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition.

3. The lubricating composition of claim 1, wherein the Group V base oil component has an aniline point of at least -5° C.

4. The lubricating composition of claim 1, wherein the Group V base oil component has a hygroscopicity less than that of glycol.

5. The lubricating composition of claim 1, wherein the polyolefin base oil component has a M_w of about 200,000 or less.

6. The lubricating composition of claim 1, wherein the polyolefin base oil component has a MWD of greater than 1 and less than 5.

7. The lubricating composition of claim 1, wherein the polyolefin base oil component is comprised of less than 5 wt % of polyolefin with C_{20} or lower carbon numbers.

8. The lubricating composition of claim 1, wherein the lubricant composition is comprised of a blend of components containing not greater than 5 wt % of any of a Group I-III base oil component.

9. The lubricating composition of claim 1, wherein the lubricating composition has a kinematic viscosity of from 435.2 cSt to 487.2 cSt at 40° C.

10. The lubricating composition of claim 1, wherein the lubricating composition has an ISO VG grade of from 150 to 6,800.

11. A method for producing a lubricating composition, comprising blending together at least the following blend components:

at least 45 wt. % and up to 75 wt. % of a Group V base oil component comprising alkylated naphthalenes, based on the total weight of the blend components that are used to produce the lubricating composition, with the Group V base oil component having a kinematic viscosity of 5 to less than or equal to 12 cSt at 100° C.; and

from 24.55 wt. % to 45 wt. % of a polyolefin base oil component, based on the total weight of the blend components that are used to produce the lubricating composition, with the polyolefin base oil component including one or more PAO base stocks having a kinematic viscosity of at least 150 cSt and not greater than 2000 cSt at 100° C.,

wherein the Group V base oil component and polyolefin base oil component together comprise at least 90 wt. % of the lubricating composition, and

wherein the lubricating composition yields a gear box efficiency in a worm drive gear box at least 1.8% greater than a similar lubricating composition including alkylated naphthalene at less than 45 wt. %.

12. The method of claim 11, wherein the blend components are comprised of from 50 wt. % to 75 wt. % of the Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition.

13. The method of claim 11, wherein the Group V base oil component has an aniline point of at least

-5° C.

14. The method of claim 11, wherein the Group V base oil component has a hygroscopicity less than that of glycol.

15. The method of claim 11, wherein the lubricating composition is produced from a blend of components containing not greater than 5 wt % of any of a Group I-III base oil component.

16. A method for improving energy efficiency of a lubricating composition used in a worm drive gear box, comprising providing in the worm drive gear box a lubricating composition of at least the following blend components:

at least 45 wt. % and up to 75 wt. % of a Group V base oil component comprising alkylated naphthalenes, based on the total weight of the blend components that are used to produce the lubricating composition, with the Group V base oil component having a kinematic viscosity of 5 to less than or equal to 12 cSt at 100° C.; and

from 24.55 wt. % to 45 wt. % of a polyolefin base oil component, based on the total weight of the blend components that are used to produce the lubricating composition, with the polyolefin base oil component including one or more PAO base stocks having a kinematic viscosity of at least 150 cSt and not greater than 2000 cSt at 100° C.,

wherein the Group V base oil component and polyolefin base oil component together comprise at least 90 wt. % of the lubricating composition, and

wherein the lubricating composition yields a gear box efficiency in a worm drive gear box at least 1.8% greater than a similar lubricating composition including alkylated naphthalene at less than 45 wt. %.

17. The method of claim 16, wherein the blend components are comprised of from 50 wt. % to 75 wt. % of the Group V base oil component, based on the total weight of the blend components that are used to produce the lubricating composition.

18. The method of claim 16, wherein the Group V base oil component has an aniline point of at least -5° C.

19. The method of claim 16, wherein the Group V base oil component has a hygroscopicity less than that of glycol.

20. The method of claim 16, wherein the lubricating composition is produced from a blend of components containing not greater than 5 wt % of any of a Group I-III base oil component.