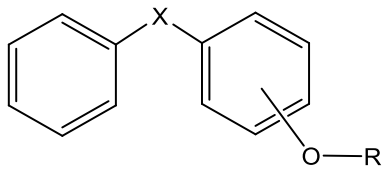
CLAIMS:

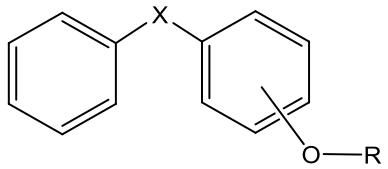
1. A composition comprising one or more compounds represented by the formula



wherein R is a substituted or unsubstituted, linear or branched, alkyl group having from 4 to 40 carbon atoms, and X is O, NR' or S, wherein R' is hydrogen or an alkyl group having from 1 to 4 carbon atoms; wherein said composition has a viscosity (K_{V100}) from 1 to 10 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from -100 to 300 as determined by ASTM D-2270, and a Noack volatility of no greater than 50 percent as determined by ASTM D-5800.

2. The composition of claim 1 which has a viscosity (K_{V100}) from 1 to 8 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from 25 to 125 as determined by ASTM D-2270, and a Noack volatility of no greater than 25 percent as determined by ASTM D-5800.

3. A composition comprising one or more alkyl substituted aryl ethers represented by the formula

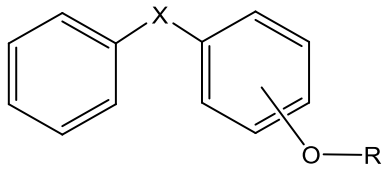


wherein R is a substituted or unsubstituted, linear or branched, alkyl group having from 4 to 40 carbon atoms, and X is O, NR' or S, wherein R' is hydrogen or an alkyl group having from 1 to 4 carbon atoms; wherein said composition has a viscosity (K_{V100}) from 1 to 10 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from -100 to 300 as determined by ASTM D-2270, and a Noack volatility of no greater than 50 percent as determined by ASTM D-5800;

wherein said one or more alkyl substituted aryl ethers are produced by a process comprising reacting a substituted or unsubstituted aryl alcohol with a substituted or

unsubstituted alkyl halide, optionally in the presence of a catalyst, under reaction conditions sufficient to produce said one or more alkyl substituted aryl ethers.

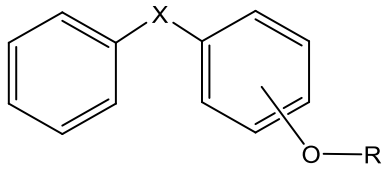
4. A composition comprising one or more alkyl substituted aryl ethers represented by the formula



wherein R is a substituted or unsubstituted, linear or branched, alkyl group having from 4 to 40 carbon atoms, and X is O, NR' or S, wherein R' is hydrogen or an alkyl group having from 1 to 4 carbon atoms; wherein said composition has a viscosity (K_{V100}) from 1 to 10 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from -100 to 300 as determined by ASTM D-2270, and a Noack volatility of no greater than 50 percent as determined by ASTM D-5800;

wherein said one or more alkyl substituted aryl ethers are produced by a process comprising reacting a substituted or unsubstituted aryl halide with a substituted or unsubstituted alkyl alcohol, optionally in the presence of a catalyst, under reaction conditions sufficient to produce said one or more alkyl substituted aryl ethers.

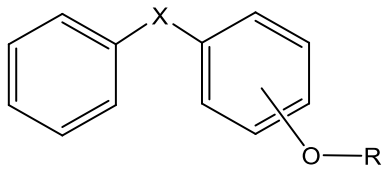
5. A lubricating oil base stock comprising one or more compounds represented by the formula



wherein R is a substituted or unsubstituted, linear or branched, alkyl group having from 4 to 40 carbon atoms, and X is O, NR' or S, wherein R' is hydrogen or an alkyl group having from 1 to 4 carbon atoms; wherein said lubricating oil base stock has a viscosity (K_{V100}) from 1 to 10 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from -100 to 300 as determined by ASTM D-2270, and a Noack volatility of no greater than 50 percent as determined by ASTM D-5800.

6. The lubricating oil base stock of claim 5 which has a viscosity (K_{V100}) from 1 to 8 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from 25 to 125 as determined by ASTM D-2270, and a Noack volatility of no greater than 25 percent as determined by ASTM D-5800.

7. A lubricating oil comprising a lubricating oil base stock as a major component, and an alkyl substituted aryl ether cobase stock as a minor component; wherein said alkyl substituted aryl ether cobase stock comprises one or more compounds represented by the formula



wherein R is a substituted or unsubstituted, linear or branched, alkyl group having from 4 to 40 carbon atoms, and X is O, NR' or S, wherein R' is hydrogen or an alkyl group having from 1 to 4 carbon atoms; wherein said lubricating oil has a viscosity (K_{V100}) from 1 to 10 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from -100 to 300 as determined by ASTM D-2270, and a Noack volatility of no greater than 50 percent as determined by ASTM D-5800.

8. The lubricating oil of claim 7 wherein the lubricating oil base stock comprises a Group I, II, III, IV or V base oil stock.

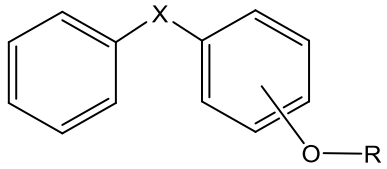
9. The lubricating oil of claim 7 wherein the lubricating oil base stock comprises a polyalphaolefin (PAO) or gas-to-liquid (GTL) oil base stock.

10. The lubricating oil of claim 7 wherein the lubricating oil base stock is present in an amount from 50 weight percent to 99 weight percent, and the alkyl substituted aryl ether cobase stock is present in an amount from 1 weight percent to 30 weight percent, based on the total weight of the lubricating oil.

11. The lubricating oil of claim 7 which has a viscosity (K_{V100}) from 1 to 8 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from 25 to 125 as

determined by ASTM D-2270, and a Noack volatility of no greater than 25 percent as determined by ASTM D-5800.

12. A method of reducing boundary friction and improving dispersancy of polar additives of a lubricating oil by using as the lubricating oil a formulated oil comprising a lubricating oil base stock as a major component, and alkyl substituted aryl ether cobase stock as a minor component; wherein said alkyl substituted aryl ether cobase stock comprises one or more compounds represented by the formula



wherein R is a substituted or unsubstituted, linear or branched, alkyl group having from 4 to 40 carbon atoms, and X is O, NR' or S, wherein R' is hydrogen or an alkyl group having from 1 to 4 carbon atoms; wherein said lubricating oil has a viscosity (K_{V100}) from 1 to 10 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from -100 to 300 as determined by ASTM D-2270, and a Noack volatility of no greater than 50 percent as determined by ASTM D-5800.

13. The method of claim 12 wherein the alkyl substituted aryl ether cobase stock has a viscosity (K_{V100}) from 1 to 8 cSt at 100ºC as determined by ASTM D-445, a viscosity index (VI) from 25 to 125 as determined by ASTM D-2270, and a Noack volatility of no greater than 25 percent as determined by ASTM D-5800.