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(54) Title: LOW MOLECULAR WEIGHT ETHYLENE/ALPHA-OLEFIN INTERPOLYMER AS BASE LUBRICANT OILS

(57) Abstract: A lubricant composition comprises an ethylene/ α -olefin interpolymer having a number average molecular weight of less than 10,000 g/mol as a base oil and at least one oil additive. The ethylene/ α -olefin interpolymer has at least one molecular fraction which elutes between 40°C and 130°C when fractionated using TREF, characterized in that the fraction has a molar comonomer content of at least 5 percent higher than that of a comparable random ethylene interpolymer fraction eluting between the same temperatures, wherein said comparable random ethylene interpolymer has the same comonomer(s) and has a melt index, density, and molar comonomer content (based on the whole polymer) within 10 percent of that of the ethylene/ α -olefin interpolymer.



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