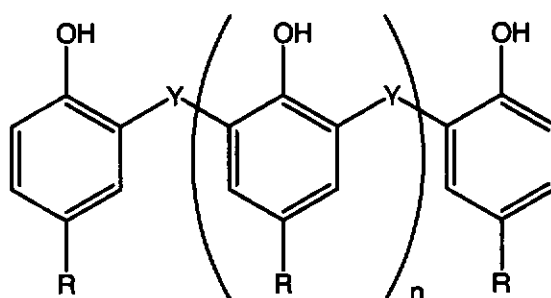


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ABSTRACT**DETERGENT ADDITIVES FOR LUBRICATING OIL COMPOSITIONS**

- 10 Use as a detergent in a lubricating oil composition of an oil-soluble hydrocarbyl phenol aldehyde condensate having the following structure:



- 15 wherein n is 0 to 10, preferably 1 to 8, more preferably 2 to 6, and most preferably 3 to 5; Y is a divalent bridging group, and is preferably a hydrocarbyl group, preferably having from 1 to 4 carbon atoms; and R is a hydrocarbyl group having from 4 to 30, preferably 8 to 18, and most preferably 9 to 15 carbon atoms. The oil-soluble hydrocarbyl phenol aldehyde condensate has a weight
20 average molecular weight (Mw) of 1250 to 1680, as measured by MALDI-TOF (Matrix Assisted Laser Desorption Ionization- Time of Flight) mass spectrometry.