

## CATALYTIC ANTIOXIDANTS

### Abstract

The present invention is directed to lubricating oils of improved antioxidancy comprising a base oil selected from the group consisting of mineral oils, synthetic oils and mixtures thereof containing an effective amount of one or more organometallic compound and/or coordination complex selected from the group consisting of (a) a metal or metal cation with more than one oxidation state, above the ground state, and two or more anions, (b) a metal or metal cation with more than one oxidation state above the ground state and one or more bidentate or tridentate ligands, (c) a metal or metal cation with more than one oxidation state above the ground slate, and one or more amines and one or more ligands, and (d) mixtures thereof, to a method for improving the antioxidancy of formulated lubricating oil compositions by the addition thereto of an effective amount of the aforementioned organometallic compound, and/or coordination complex, and to an additive concentrate containing the aforementioned organometallic compound and/or coordination complex.