Abstract

The present invention relates to a lubricating oil friction modifier and a preparation method therefor and use thereof. The lubricating oil friction modifier has a chemical formula of $A_xB^{y+}(C^-)_y$, wherein, A is a perfluoropolyether acyl group, B^{y+} represents a cationic group having x amino groups and y ammonium ions, C^- is BF_4^-, PF_6^-, AsF_6^-, FAP^-, $TFSI^-$, Mn_2O_4 or ClO_4^-, x is an integer greater than or equal to 1, y is an integer greater than or equal to 1, and $x+y\geq 2$. The lubricating oil friction modifier of the present invention has a good solubility with fluorine oil and fluorine grease, will not precipitate in the fluorine oil and the fluorine grease after being added, and can significantly improve the wear resistance of a lubricating oil such as the fluorine oil and the fluorine grease.

(Fig. 1)