

ABSTRACT

The present invention provides a lubricant for a compression type refrigeration system using a lower hydrocarbon refrigerant, comprising as a main component a mineral oil having a kinematic viscosity at 40°C of 3-150 mm²/s, a pour point of -25°C or lower, a viscosity index of 50 or higher, %C₂ and %C₄ by n-d-M ring analysis of 50 or more and 12 or less, respectively, a nitrogen content of 20 ppm or lower, a sulfur content of 0.02-0.3% and an iodine value of 10 gI₂/100g or lower, a working fluid composition for the refrigeration system comprising the lubricant and the lower hydrocarbon refrigerant comprising hydrocarbon compounds having 1-5 carbon atoms, and a refrigeration system is filled with the working fluid composition. Because of excellent compatibility with a hydrocarbon refrigerant and also excellent stability and lubricating properties, the lubricant of the present invention is very useful for the refrigeration system using the hydrocarbon refrigerant, which does not have the fear of ozone layer depletion and global warming.