

DETERIORATION DIAGNOSIS DEVICE AND METHOD FOR SILICONE FLUID USED
FOR AN ELECTRICAL APPARATUS

ABSTRACT

A deterioration diagnosis device for silicone fluid used for an electrical apparatus comprising: an electrical apparatus, a tank 1 for containing the electrical apparatus thereinside, silicone fluid 6 reserved in the tank and for insulating and/or cooling the electrical apparatus; a collection pipe 16a for collecting part of the silicone fluid into an exterior of the tank 1; a gaseous component sampling chamber 17 for heating the silicone fluid collected through the collection pipe 16a in order to evaporate a cyclic compound contained therein; a gas analyzer 19 for quantitatively analyzing the cyclic compound evaporated at the gaseous component sampling chamber 17; a determination unit 30 for diagnosing the deterioration status of the silicone fluid on the basis of the analysis of the cyclic compound analyzed at the gas analyzer 19; and a display 32 for displaying the analysis of the cyclic compound analyzed at the gas analyzer 19 and/or the deterioration status of the silicone fluid diagnosed at the determination unit 30.

(Fig. 1)