

**Title :**

Lithium Soap Grease에 있어서 산화방지제에 따른 노화과정의 연구

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**Abstract :**

Grease can be used semipermanently when it is injected into places that needs lubricants because of its characteristic. The function of an antioxidant, one of the additives of Grease, is very important to show its special feature. If the stability of the oxidation goes down, grease starts to make sludges. For this reason, the life time of grease gets shorter, and grease corrodes the surface of metals so that the life time of machines becomes shorter, too.

In this experiment, we are trying to find out not only the changes of phases and the process of aging of grease when antioxidants which have different chemical structures are added to Lithium soap grease, but also how those antioxidants affects the life time of Lithium soap grease.