

Extension of Grease Service Life for Improved Grease Pocket

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The interval for motor disassembling maintenance is now determined by the durability of sealed grease whose lifetime is the shortest among all bearing parts and materials, which should be extended further. For this purpose, therefore, the authors discussed the shape of "grease pocket" and have shown that the efficiency of grease lubrication depends on the shape of grease pocket and the relative position between pockets and the bearing, which should be appropriately modified. In this report, the authors performed laboratory tests with full-scale grease pocket models of refined and conventional shapes to compare the service lives and determine the improved effect.