

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 232**

Loctite® RC™ 680 Retaining Compound Extends Housing & Bearing Life

Saves Sawmill Up To \$9,600 Per Year In Replacement Parts

Situation:

Short life and excessive wear of the roller bearing housing on a log reducer line was causing problems for a medium-sized sawmill. Standard bearing installation procedures involved a combination of heating or cooling to achieve a pressfit. The resultant assembly would only last 4-6 months, at which point the roller housing would have to be replaced due to excessive wear. At a cost of \$600-\$800 per housing, multiplied by four housings per reducer, the millwrights knew there had to be a better solution.

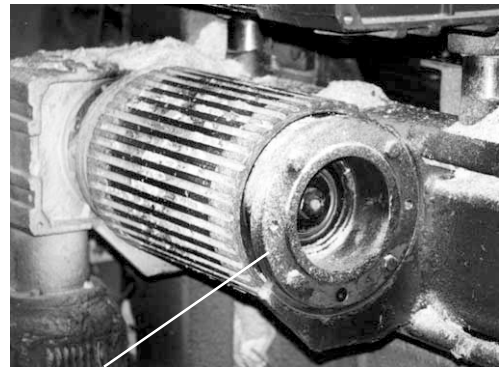
Solution:

Loctite RC 680 Retaining Compound is a high strength adhesive used to join fitted cylindrical parts. It fixtures in just 10 minutes at room temperature and provides a shear strength of 4000 psi on steel after 24 hours. Capable of filling diametral gap distances up to 0.015" (0.038 cm), RC 680 can reduce costs by allowing relaxed machining tolerances and replacing clamp rings, set screws and snap rings.

The housing and the bearings were both cleaned with 7070 Cleaner, then primed with Locquic Primer N. The bearings were then installed with RC 680.

Results:

The use of Loctite RC 680 Retaining Compound has extended the life of the fit between the housings and the bearings from 4-6 months to over two years. Additionally, RC 680 has protected the the housings from excessive wear. Now when the reducer is serviced, the mill is able to reuse the housings and save the associated costs of replacement. Maintenance personnel puts annual cost savings at \$4,800 to \$9,600.



External view of the reducer motor showing where the bearing sits in the housing on the line.



The inner race of the roller bearing housing typically wears after only 6 months of use and costs approximately \$600-\$800 to replace. Loctite® RC™ 680 Retaining Compound extends the life of the fit between the housing and the bearings to over two years.

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