

**LOCTITE***Adhesives for more  
reliable assemblies***APPLICATION CASE HISTORY****No. 249**

# Loctite Manufacturing Reliability Training Helps Auto Parts Manufacturer Avoid 6.5 Hours Of Downtime

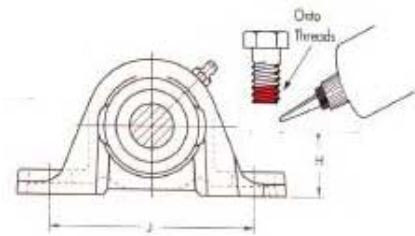
**Situation:**

Fastener loosening is typically one of the most frustrating problems encountered by maintenance professionals on a daily basis. An automotive parts manufacturer was having difficulty keeping pillow block bearing bolts properly secured on their conveyor system. During operation, this conveyor system has a tremendous amount of vibration due to loading, speed up/slow down situations, and start and stop processes.

When the mounting bolts work loose, the main conveyor system must be shut down and maintenance personnel must realign the assembly and retighten the bolts. This repair takes approximately 45 minutes, which idles the plant's production. In just six months, 9 plant shutdowns were attributed to these fasteners coming loose.

**Solution:**

The Loctite Manufacturing Reliability Process incorporates equipment reliability training for maintenance personnel. This training provides reliability techniques, procedures, and methods to overcome fastener loosening. Based on what they learned, the personnel from the automotive parts plant chose Loctite® 242® Threadlocker to overcome the vibration loosening of the pillow block bearing bolts. Loctite 242 is applied prior to fastener assembly and is recommended for 1/4" to 3/4" fasteners. Once 242 has cured in place, it has a torque removal resistance of 115 in. lbs., and can be disassembled with standard hand tools. It resists vibration loosening and does not breakdown when in contact with various shop chemicals.

**Results:**

Loctite 242 Threadlocker unitized the bolts within the assembly and prevented them from vibrating loose. Since implementing this technique and product, this manufacturer's preventive maintenance department has developed a "one point" lesson that is posted at each conveyor junction. It gives a pictorial representation of the assembly with written step-by-step instructions on how to properly install and repair bearings with Loctite 242.

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