

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 247**

Loctite Manufacturing Reliability Process Teaches Maintenance Department How To Avoid Costly Oil Leaks

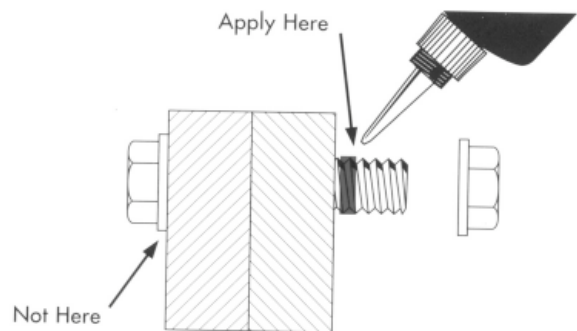
Situation:

Fastener loosening is one of the most frustrating problems encountered by maintenance professionals on a daily basis. A midwestern lumber company had difficulty keeping pipe hanger bracket bolts from vibrating loose. The pipe hangers secure various oil lines going to and from one of their major hydraulic presses. When the press is in operation, the entire system experiences a tremendous amount of vibrational loading. With this loading, the pipe hanger bracket bolts vibrate loose, causing the hydraulic oil lines to fall and break around their welds. When the pipes leak, the machine is shut down for repairs. They have estimated that labor, downtime, and lost oil related to these bracket bolts has cost their plant over \$4,400.

Solution:

The Loctite Manufacturing Reliability Process incorporates equipment reliability training for maintenance personnel. This training provides maintenance technicians with techniques, procedures and methods to overcome fastener loosening.

Based on what they learned in this training, the lumber company maintenance technicians chose Loctite® 242® Threadlocker to overcome their bracket bolt vibrational loosening. This is a product that 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 has prevented further failures related to the bracket bolt assembly by stopping the fasteners from vibrating loose. Since implementing the Loctite Manufacturing Reliability Process, the lumber company has utilized procedures they have learned in other areas throughout the plant.

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