

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 240**

Proactive Maintenance Techniques Stop Oil Leaks In Paper Machinery Dryer Section

Loctite® Flange Sealant and Threadlockers An Integral Part of Program

Situation:

Many paper producers have problems sealing the gear sections of their paper machines. The extreme temperatures bake any gasket materials or weak sealants. The older machines have sole plates that are worn from years of service. They are typically embedded into the concrete and have worked loose. The continuous vibration and rocking of the sole plates work the gear cover assembly bolts loose which places more demand on the gasketing materials.

As a result, these paper machines leak oil. Attempts to seal up dryer section gear casings almost always fail: some sealants bake and literally flake off the seam.

Solution:

Reducing and eliminating leaks on a paper machine is not a simple task. It requires the commitment of the maintenance department to use not just preventive maintenance techniques, but proactive techniques. An external seal of the gear box is only half the solution. To be truly effective at sealing gear sections, the covers need to be removed to expose the internal vertical seams. These seams should be sealed with Loctite® 5900™ RTV Silicone Flexible Flange Sealant. This noncorrosive, low odor gasketing material provides superior flexibility while adhesion accommodates joint movement. Its heavy body provides an instant seal that is resistant to oil and transmission fluid.

The gear sections are assembled with numerous fasteners and are bolted to the sole plates. These fasteners are often undertorqued as a result of the paper machine rocking on the sole plates. To prevent the fasteners from loosening, a Loctite® Removable Threadlocker should be applied.

Loctite® 243 is a medium-strength threadlocker for fasteners up to 3/4". It cures reliably and is extremely tolerant of oil and other contaminants. The fasteners can be disassembled with hand tools when maintenance inside the cover is required.

Results:

Proactive maintenance techniques such as these can eliminate oil leakage and machine downtime. Your Loctite Representative can help set up a proactive maintenance program for your company, and demonstrate how products such as Loctite 5900 Flange Sealant and Loctite 243 Threadlocker can be used to seal and secure dryer sections to reduce the cost of leaks and cleanup of used oil. Call your Loctite Representative today to see how Loctite can help you.



Loctite® 5900™ RTV Silicone Flange Sealant is applied as a final seal to the inspection cover of the paper machine gear section. All marked bolts are sealed and secured with Loctite® 243 Removable Threadlocker.

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