

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 224**

Hydraulic Motors Rebuilt Leak-Free With Loctite® 545 Pneumatic/Hydraulic Sealant

Situation:

Motion Industries' Service Department, based in Nashville, TN, is contracted by their industrial customers to repair components of hydraulic power packages. These components include cylinders, motors, pumps and lines.

Some small hydraulic motors are originally manufactured without gaskets or o-rings between various covers and plates. When these units are sent in for repair, the components are beginning to show signs of age and potential leak paths.

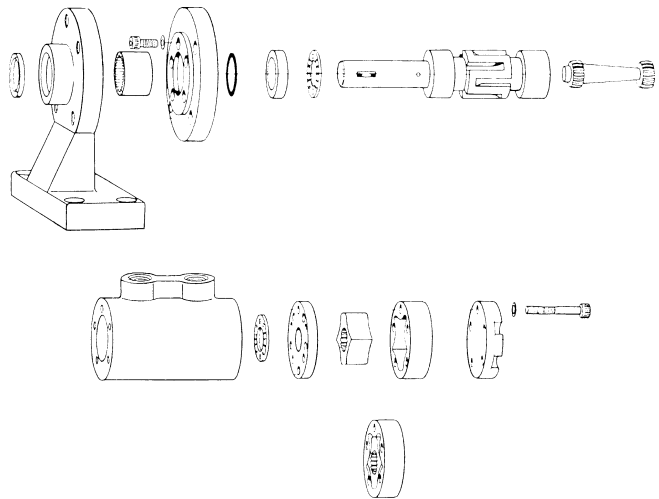
Solution:

Loctite® 545 Pneumatic/Hydraulic Sealant is non-contaminating for locking and sealing high pressure fluid power systems. It cures on as-received fittings and withstands temperatures to 300°F. Loctite 545 seals instantly and allows for easy disassembly with hand tools.

A small film of Loctite 545 spread on the faces of the body, flanges, covers and plates forms a leak-free gasket. Once the unit is assembled, these components mate with the motor body with virtually no clearance between them. With the absence of air and the presence of metal, the liquid sealant changes to a solid thermoset plastic. And since Loctite 545 is impervious to oil, the motor becomes a reliable, leak-free unit.

Results:

Motion Industries tests all the units they rebuild before sending them back to the customer. Dick Smith, mechanic for Motion Industries claims, "Since we've been using Loctite 545 Pneumatic/Hydraulic Sealant, every unit we've tested has passed leak-free."



Loctite® 545 Pneumatic/Hydraulic Sealant is spread over the body, flanges, covers and plates of the hydraulic motor components to form leak-free gaskets.

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