

LOCTITE*Adhesives for more
reliable assemblies***APPLICATION CASE HISTORY****No. 230****Loctite® RC™ 620 Seals Komatsu Injector Tubes***ProActive Maintenance Program Provides Assembly Standardization***Situation:**

A Komatsu heavy equipment dealer wanted to standardize operations in their engine rebuild department. They had discovered that the same application was being performed in different ways – depending upon which mechanic was doing the work. A Loctite Proactive Maintenance Service Program was scheduled to help put an end to this practice by determining the best product for each particular application.

One particular application was the installation of injector tubes most often found on 155 series engines. These tubes seal water from the crankcase and also help prevent antifreeze from getting into the cylinder chambers of the engine and engine oil. At the rebuild department several different methods were being used to install these tubes. Management's goal was to find the best method for installing the injector tubes, and make sure everyone in the department did it the same way.

Solution:

Loctite RC 620 is a high temperature, high viscosity retaining compound. It fixtures in 30 minutes at room temperature and provides a sheer strength of 3,000 psi on steel. A bead of RC 620 is applied to the interior of the engine housing and to the upper end of the injector tube. After installation, rollers are used to crimp the tubes.

Results:

Thanks to the Loctite Proactive Maintenance Service Program, the engine rebuild department has standardized all their assembly methods, including the installation of injector tubes. Using Loctite products such as Loctite RC 620 Retaining Compound has helped this Komatsu dealer ensure long engine life after rebuilding and increase overall customer satisfaction.



Loctite® RC™ 620 is applied in a bead to the upper end of the injector tubes (top), and the interior of the engine housing (bottom) prior to installation. RC 620 has helped increase the life of the rebuilt Komatsu engines due to its high temperature performance and its high chemical resistance.

Loctite Americas

U.S.A.
Loctite Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067
860-571-5100
Telefax: 860-571-5465

CANADA
Loctite Canada Inc.
2225 Meadowpine Blvd.
Mississauga, Ontario L5N 7P2
800-263-5043 (within Canada)
905-814-6511
Telefax: 905-814-5391

MEXICO
Loctite Company de México, S.A. de C.V.
Calzada de la Viga s/n, Fracc. Los Laureles
Loc. Tulpetlac, C.P. 55090
Ecatepec de Morelos, Edo. de México.
01-800-8499-412
Telefax: 011-525-787-9404