

Date: 9/21/2017

Subject: Preservation of Non-Installed Cylinder Assemblies

Application/Models Affected: All cylinder assemblies manufactured by Superior Air Parts

Background: Superior Air Parts has received inquiries regarding the preservation of cylinder assemblies that have not yet been installed on an engine. This Service Letter is intended to provide guidance for those cylinder assemblies that have yet to be placed into service within the 6 month period from their respective manufacture date. New cylinder assemblies that ship from Superior Air Parts are pre-treated for corrosion prevention by the use of preservation oil conforming to MIL-P-46002 grade 1, plastic protective sealed bags, and desiccant bags.

Superior Air Parts cylinder assembly preservation is designed to keep the cylinder assembly free from corrosion for a period of 6 months from the date of manufacture. Cylinder assemblies that have not been installed and are stored for a period longer than 6 months from date of manufacture should be processed following the guidance outlined in this service letter.

Please note that cylinder assemblies that have been installed fall under the guidance of engine preservation, and therefore, should follow the latest revision of the respective engine manufacturer preservation instructions:

Superior Air Parts – Service Letter L05-08
Continental Motors – Service Information Letter SIL99-1
Lycoming – Service Instruction SI1481

Compliance: Procedure to be performed for all cylinder assemblies not installed within 6 months of the manufacture date or shipment date from Superior Air Parts whichever occurs latest.

Failure to comply with this Service Letter instruction may result in denial of warranty claims!

1. Carefully remove the cylinder assembly from the shipping container. Use care in handling the cylinder to prevent damage to the cooling fins and paint.
2. Carefully remove the protective plastic bag and desiccant bag.
3. Carefully lay the cylinder on its side on a soft flat surface again using care to not damage cooling fins or paint. Orient the assembly such that the cylinder bore can be accessed.
4. Using a clean lint free cloth, wipe the inside of the cylinder bore thoroughly to remove existing preservation oil and any possible contaminants.
5. Using a bright light and mirror, inspect the inside of the cylinder bore for signs of surface oxidation or rust pitting. If rust pitting exists, contact Superior Air Parts Technical Product Support (800-277-5169 or 972-829-4600) for further instructions. If only light surface oxidation is found, gently brush the respective area using a clean Scotch Brite pad until oxidation is removed. Wipe the inside of the barrel using a clean lint free cloth.
6. Liberally spray the entire bore and combustion area with preservation oil meeting MIL Specification MIL-P-46002 Grade 1.
7. Place a new desiccant bag and humidity indicator strip into the cylinder barrel. Desiccant bag (part number S-2855) and Humidity Indicator Strip (part number S-1547) are available directly from ULINER or any Superior Air Parts distributor.
8. Taking care to prevent paint and cooling fin damage, put the cylinder back into the protective plastic bag and then place the bagged cylinder back into the shipping container.
9. Seal the container with new tape and mark the shipping container with the preservation process date.
10. Keep a record of the preservation process and date performed.