

»» **Service Bulletin**

FAA Approved

**Number: B95-01 A**

**Replaces 95-001**

**Date:** 07/06/2004

**Subject:** Overhaul Procedures and the SA626992 Piston

**Application:** Teledyne Continental O-470-K, L, and R

**Compliance:** Before Further Flight

Before the next flight, Superior recommends that all owners and operators of Teledyne Continental O-470-K, L, and R engines remove all **SA626992** and **SA626992 P15** pistons and replace them with **SA640518** or **SA640518 P15** pistons respectively. An appropriate entry should be made in the engine log book indicating compliance with Superior Air Parts, Inc. *Service Bulletin No. B95-01*.

Superior last sold the **SA626992** and **SA626992 P15** pistons in 1981. Approximately 8,100 pistons were manufactured before the piston was superseded by part numbers **SA640518** and **SA640518 P15**. In November 1993, Superior issued its *Service Bulletin B93-07* recommending these pistons be removed the next time access to the piston was gained.

Investigation indicates a possibility that a small number of the **SA626992** and/or **SA626992 P15** pistons may have a very small casting defect in the mold parting line area of the piston skirt caused by imperfections on the mold used by the foundry, Gould, Inc.

Recent reports to Superior indicate that a small number of **SA626992** and/or **SA626992 P15** pistons may still be in service. Because of the possibility that a piston with a molding defect may still be in service, Superior requests compliance with this Bulletin before the next flight.

Superior recommends that owners and operators examine all engine maintenance and overhaul documents to determine whether an **SA626992** and/or **SA626992 P15** piston is installed in the engine. If the determination cannot be made by these steps, it may be necessary to visually examine the pistons.

The pistons affected by this *Bulletin* can be identified by either a stamped-in part number on the piston dome (**SA626992** or **SA626992 P15**), or by a raised casting number (**SA632932**) running parallel to the piston stroke and adjacent to one of the piston pin bosses on the underside of the piston.

Since these pistons are beyond the warranty period, no credit program is available for normal warranty expenses to comply with this bulletin.

Superior has noted over the years that many of the parts recommended for replacement at overhaul are being reused during one or more major or top overhauls. This is especially true of pistons, which are remaining in service much longer than anticipated. Pistons are subject to high stresses due to heat, firing pressures, and uneven forces applied to the piston skirt as the clearance between the piston and cylinder barrel increase during service. Therefore, Superior continues to recommend that all pistons, regardless of condition, be replaced at major or top overhaul.

**NOTE:**

Users must comply with all applicable bulletins, letters and instructions referring to the installation or use of these parts.