

UNAPPROVED PARTS NOTIFICATION

NO. 97-279
April 2, 1998

AFFECTED ENGINES:

Teledyne Continental Motor Engine model number IO470, TSIO520 and IO360; and Avco Lycoming Engine model numbers TSIO540 and IO720.

PURPOSE:

This notice is to advise all owners, operators, and maintenance entities of improper work performed by Aero Power Inc. and/or Executive Aircraft Engines of Cleves, Ohio, between October, 1996 and January, 1997.

BACKGROUND:

During an unapproved parts investigation, it was determined that Aero Power Inc. and Executive Aircraft Engines, both located at 4817 East Miami River Road, Cleves, Ohio 45002, were not performing work in accordance with accepted industry standards and the performance requirements of 14 CFR Part 43. These companies have been, or are now, owned and operated by George E. Geisz.

Based on the investigation the discrepancies noted were as follows:

- a. Current manufacturers' overhaul manuals and illustrated parts catalogs were not being used during the overhaul of Teledyne Continental Motors and Avco Lycoming reciprocating engines and accessories.
- b. The use of used/replacement parts that did not meet the engine manufacturers minimum service limits requirements.
- c. Some of the nondestructive testing (NDT) work was performed by individuals who had no formal training in NDT procedures and was conducted on equipment that was not of current calibration.
- d. Engine crankcase weld repairs were performed by a non-certificated facility and repairs were outside the scope of the overhaul manuals.
- e. Engines were approved for returned to service without the proper documentation of work accomplished, service instructions, bulletin compliance, and AD compliance and, at times, by uncertificated individuals.

RECOMMENDATIONS:

Aircraft owners, operators, maintenance entities, parts distributors, suppliers, and manufacturers should determine if any work was accomplished on the referenced engine by the above named companies. If work was accomplished, the following should be done:

- a. The part or component should be inspected and checked for serviceability and conformity.
- b. Particular attention should be given to the engine log book entries, maintenance release tags, invoices, and any other documentation concerning parts in the engines/accessories that were

overhauled or repaired. Those items should be reviewed for authenticity and to substantiate the component's historical record.

c. If an engine experienced major problems such as complete engine failure, premature accessory failure, low cylinder compression, burnt valves, piston failure, metal in the oil screen, engine overheating indications and other indications of improperly performed work, it should be reported to the local Flight Standards District Office (FSDO) by telephone, fax, or by submission of FAA Form 8110-4, Malfunction and Defect Report.

Regulations require that type certificated products conform to their type design. When an unauthorized procedure and/or repair has been accomplished, appropriate action should be taken.

FURTHER INFORMATION:

The FSDO listed below would appreciate any information regarding the discovery of the above problems from any source and the means used to identify the source.

This notice originated from the Cincinnati, Ohio FSDO, 4240 Airport Rd, Cincinnati, Ohio 45226, telephone (513) 533-8110, fax (513) 533-8420, and was published through the Suspected Unapproved Parts Program Office, AVR-20, telephone (703) 661 -0581, fax (703) 661 -0113.

Note: This Notification has been published in the General Aviation Alerts, AC 43-16, and the Suspected Unapproved Parts Program Office Web Site only.