United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SE3517NM

This certificate, issued to Allen E. Timberman

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 13 *of the* Civil Air *Regulations.*

Original Product — Type Certificate Number: 3E1

Make: Continental

Model: IO-470-C, D, E, F, G, H, J, K, L, M, N, P, R, S, U, and V

Description of Type Design Change: Replacement of the original engine oil screen with an external mounted full flow oil adapter and spin-on filter in accordance with FAA sealed copies of Timberman Master Drawing List No. AT-2-IO-470-DL, revised March 30, 1988, and Installation Instructions No. AT-2-IO-470-II, revised March 30, 1988, or later FAA Approved revisions.

Limitations and Conditions: Approval of this change in type design applies only to those basic Continental IO-470 engine models referenced above that are equipped with a Continental P/N 632563 oil pump housing and shaft assembly. This approval should not be extended to other engines of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of these engines. A copy of this Certificate must be maintained as part of the permanent records for each engine modified in accordance with this STC. (See Continuation Sheet page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: July 3, 1985

Date reissued: June 16, 1987; July 30, 1993

Date of issuance: June 26, 1986

Date amended: September 21, 1988; July 30, 1993

By direction of the Administrator

(Signature)

Manager, Special Certification Branch
Seattle Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

FAA Form 8110-2 (10-68)

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Supplemental Type Certificate

(Continuation Sheet)

Number SE3517NM

Limitations and Conditions (continued):

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Allen E. Timberman

The limitations and conditions shown on Type Certificate Data Sheet No. 3E1 for Continental Models IO-470-C, D, E, F, G, H, J, K, L, M, N, P, R, S, U, and V engines remain applicable.

The installation of an engine modified in accordance with this STC will require a determination by the installer that no interference is created with existing aircraft systems.

Engines equipped with the Timberman spin-on oil filter must continue to be maintained in accordance with the original engine manufacturer's maintenance instructions, except as indicated on an FAA sealed copy of Timberman Maintenance Instructions No. AT-2-IO-470-MI, dated May 5, 1986, or later FAA Approved revision, a copy of which must be added to the engine maintenance records.

This STC covers the fabrication of all parts associated with this oil filter installation and also the physical modification of the engine models listed on this Certificate. Associated STC No. SA4321NM covers the use of these modified engines on specific airplane models, and also covers the mounting of the oil filter, filter base, and mounting plate on the firewalls of these airplanes.

- END -

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.

C FAA AC 82-03578