

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA1385GL

This certificate issued to

McCauley Propeller Systems
7751 East Pawnee
Wichita, KS 67207

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 3 of the Civil Air Regulations.

See Type Certificate Data Sheet A9EA for complete certification basis.

Original Product-Type Certificate Number: A9EA

Make: Viking Air Limited (DeHavilland Aircraft)

Model: DHC-6-300

Description of Type Design Change:

Installation of McCauley Propeller Systems propeller model 4HFR34C764/94LMB-0 in accordance with McCauley Technical Report No. 707, no revision, dated March 8, 1989 and McCauley Drawing No. D-60040, Change Number 7204, dated March 10, 1989, or later FAA approved revision.

Limitations and Conditions:

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. FAA Approved Airplane Flight Manual Supplement dated May 17, 1989, or later FAA approved revision, is required.

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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: September 24, 1988

Date reissued: July 19, 2006

Date amended:

Date of issuance: May 17, 1989

By direction of the Administrator



(Signature)

Thaddeus D. Krolicki, Jr.
Manager, Propulsion Branch
Chicago Aircraft Certification Office

(Title)

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Limitations and Conditions (Continued):

- Aircraft specifications are the same as listed on Aircraft Specification Data Sheet No. A9EA

Propeller and Propeller Limits

2 McCauley 4HFR34C764 hubs with 94LMB-0 blades

Diameter: 94 to 92 inches

Propeller blade angle at 30 inches:

Feathered:	+86.8° ± 0.3°
Takeoff Low Pitch:	+17.5° (22.0° pickup)
Idle Blade Angle:	+11.5°
Reverse Blade Angle:	-10.0° ± 0.4°

Tolerances for takeoff Low Pitch and Idle Blade Angle are contained in McCauley Technical Report 707.

Minimum propeller ground idle RPM for continuous operation shall not be less than 1034 RPM (47% N_p); however, propeller may be feathered on the ground and idled at rotational speeds below 400 propeller shaft RPM (18% N_p)

- If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.