United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA1015NW

This certificate, issued to James L. Hawk

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.*

Original Product — Type Certificate Number: 1A6

Make: Piper

Model: PA-22-160

Description of Type Design Change: Installation of a Lycoming O-360-A3A engine, a McCauley 1A200/DFA-8243 (Seaplane) propeller, cowling, air inlet filter assembly, baffling, and Edo 248-2440 floats (with aileron/rudder interconnect) in accordance with James L. Hawk photographs 1 through 4.

Limitations and Conditions: Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Piper PA-22-160, Serial Number 22-6653 only. A copy of this Certificate and Addendum No. SA1015NW shall be maintained as part of the permanent records for the modified aircraft.

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 18, 1980

Date of issuance: August 15, 1980

Date reissued:

Date amended:

By direction of the Administrator

D. L. Riggin

(Signature)

Chief, Engineering and Manufacturing Branch

(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)

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

August 15, 1980 *Number* SA1015NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA1015NW

The conditions and limitations of Type Certificate Data Sheet Number 1A6 apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA1015NW, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: James L. Hawk

I. PA-22-160 4PCSM (NORMAL CATEGORY ONLY) AS MODIFIED BY STC SA1015NW

Engine:	Lycoming 0-360-A3A
Fuel:	91/96 minimum grade aviation gasoline
Engine Limits:	For all operations 2700 rpm (180 Hp)
Propeller and Propeller Limits:	McCauley 1A200/DFA-8243 Diameter: 82" maximum; 78" minimum
Powerplant Instrument Markings:	Tachometer: 2700 rpm (red line) maximum Oil Temperature Gauge: 245°F (red line) maximum Oil Pressure Gauge: 25 psi (red line) minimum 100 psi (red line) maximum 60 to 90 psi (green arc) normal operating range Fuel Pressure Gauge: .5 psi (red line) minimum 8 psi (red line) maximum 3 to 5 psi (green arc) normal operating range

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. G. Range:	Seaplane (normal category): (15.0) to (20.0) at 2000 pounds (12.0) to (20.0) at 1800 pounds (10.0) to (20.0) at 1500 pounds or less STRAIGHT LINE VARIATION BETWEEN POINTS GIVEN
Maximum Weight:	2000 pounds
Required Equipment:	None
Serial Number Eligible:	22-6653

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