

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

Number SA840NW

This certificate, issued to William A. Yarcho

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: 1A1
Make: Piper
Model: PA-16

Description of Type Design Change: Installation of a Lycoming O-290-D2 engine, Sensenich M74DM-0-5252 propeller, PA-22 balanced elevators and an overhead sky light window (1/8" X 15" X 32") in accordance with William A. Yarcho photographs 1 through 5.

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-16, Serial Number 16-543 only. A copy of this Certificate and Addendum No. SA840NW 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: June 24, 1979

Date reissued:

Date of issuance: October 1, 1979

Date amended:



By direction of the Administrator
Charles C. Schroeder
(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.

United States of America
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Supplemental Type Certificate
(Continuation Sheet)

October 1, 1979 *Number* SA840NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA840NW

The conditions and limitations of the original specification apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA840NW, prescribes conditions and limitations under which the STC was issued and meets the airworthiness requirements of Civil Air Regulation 3.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: William A. Yarcho

I. PIPER PA-16, 4PCLM (NORMAL CATEGORY) AS MODIFIED BY STC SA840NW

Engine:	Lycoming O-290-D2
Fuel:	80/87 minimum grade aviation gasoline
Engine Limits:	Takeoff (1 min.): 2800 rpm (140 Hp) @ sea level Maximum Continuous Power: 2600 rpm
Propeller and Propeller Limits:	Sensenich M74DM-0-5252 Diameter: 74" maximum; 72" minimum Static Limits: 2550 rpm maximum; 2450 rpm minimum
C. G. Range:	Same as Type Certificate Data Sheet 1A1
Maximum Weight:	1650 pounds (Same as T.C. Data Sheet 1A1)
Datum:	Wing leading edge
Instrument Markings:	Oil Temperature: 245° F Oil Inlet (red line) Oil Pressure: 60-90 psi (green arc) Cylinder Head Temperature: 500° F Bayonet Thermocouples (red line)
Serial Number Eligible:	16-543 only

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