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## **Change Record**

## **SECTION A: PA-44-180 (Seminole)**

### **A.I. General**

1. a) Type: PA-44  
b) Variant: PA-44-180 (Seminole)
2. Airworthiness Category: Normal Category
3. Type Certificate Holder: Piper Aircraft, Inc  
2926 Piper Drive  
Vero Beach, Florida 32960  
U.S.A.
4. Manufacturer: Piper Aircraft, Inc  
2926 Piper Drive  
Vero Beach, Florida 32960  
U.S.A.
5. EASA Certification Application Date: N/A
6. EASA Type Certification Date: 28 September 2003 (in accordance with EC 1702/2003,  
Article 2, para. 3. (a))

### **A.II. Certification Basis**

1. Reference Date for determining the applicable requirements: Date of application for FAA TC for Model PA-44-180 (Seminole)  
17 January 1976
2. (Reserved)
3. (Reserved)
4. Certification Basis:
  - a) For the basic PA-44-180 (Seminole) aeroplane the applicable certification basis is FAR 23. For details on the applicable FAR 23 amendments see A.V., note 6.
  - b) For PA-44-180 (Seminole) aeroplanes equipped with the factory installed Avidyne Entegra System option the additional certification basis for installation specific items only is CS-23 as defined in CRI-A01, issue 1, or later revision (for details on applicable paragraphs see A.V., note 7).
5. Airworthiness Requirements:
  - a) FAR 23 for the basic PA-44-180 (Seminole) aeroplane (for applicable amendments see A.II., 4.).
  - b) FAR 23 and CS-23 for PA-44-180 (Seminole) aeroplanes equipped with the factory installed Avidyne Entegra System option (for applicable amendments see A.II., 4.).
6. Requirements elected to comply: None

7. Special Conditions:
- a) None for the basic PA-44-180 (Seminole) aeroplane.
  - b) CRI-F01, Protection from the Effects of HIRF, CRI-F02, Protection from the Effects of Lightning Strike; Indirect Effects, CRI-F05, Human Factors in Integrated Avionic Systems, for PA-44-180 (Seminole) aeroplanes equipped with the factory installed Avidyne Entegra System option.
8. Exemption: None
9. Equivalent Safety Findings:
- a) FAR 23.1545(a) for the basic PA-44-180 (Seminole) aeroplane (airspeed indicator markings based on IAS instead of CAS).
  - b) CRI-F03, Powerplant Instruments for PA-44-180 (Seminole) aeroplanes equipped with the factory installed Avidyne Entegra System option.
10. Environmental Standards: ICAO Annex 16, Volume 1, Chapter 6

### **A.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition:
- For aeroplane S/Ns 44-7995001 through 44-8195026 only:  
Piper report number VB-907
- For aeroplane S/Ns 4495001 through 4495013, and 4496001 and up only:  
Piper report number VB-907 (see note 10)
- For TDD of TCDS relevant changes see also note 8.
2. Description: Twin engine reciprocating, all-metal, four-place, unpressurized, low wing aeroplane, retractable tricycle landing gear.
3. Equipment: For approved equipment, see applicable AFM/POH, section 6. (For applicable AFM/POH see A.IV.).
4. Dimensions:
- |           |                                 |
|-----------|---------------------------------|
| Span      | 11.75 m (38.6 ft)               |
| Length    | 8.41 m (27.6 ft)                |
| Height    | 2.59 m (8.5 ft)                 |
| Wing Area | 17.08 m <sup>2</sup> (184 sqft) |
5. Engines:
- 5.1 Engine 1: For aeroplane S/Ns 44-7995001 through 44-8195026 only:
- 1 Lycoming O-360-E1A6D carburetor setting 10-5092, 10-5219, or 10-6019 (LH engine),  
1 Lycoming LO-360-E1A6D carburetor setting 10-5092, 10-5219, or 10-6019 (RH engine).

- 5.2 Engine 2: For aeroplane S/Ns 4495001 through 4495013, and 4496001 and up only:
- 1 Lycoming O-360-A1H6 carburetor setting 10-5219, or 10-6019 (LH engine)
  - 1 Lycoming LO-360-A1H6 carburetor setting 10-5219, or 10-6019 (RH engine)
- The EASA Engine Type Certification standard includes that of FAA TCDS E-286 (in accordance with EC 1702/2003, Article 2, para. 3. (a)).
- 5.3 Engine Limits: For all operations:  
2700 RPM (180 HP)
- For other powerplant limitations refer to the applicable AFM/POH, section 2.
6. Propellers:
- 6.1 Propeller 1: For aeroplane S/Ns 44-7995001 through 44-8195026 only:
- 1 Hartzell, Hub HC-C2Y(K, R) -2CEUF, Blade Model C7666A-2R (LH propeller)
  - 1 Hartzell, Hub HC-C2Y(K, R) -2CLEUF, Blade Model FJC7666A-2R (RH propeller)
- Pitch: High  $80.0^{\circ} \pm 1^{\circ}$ , Low  $12.4^{\circ} \pm 0.2^{\circ}$ , at 0.762 m (30") station.
- Diameter: Not over 1.880 m (74.0"), not under 1.829 m (72.0").
- Spinner: Hartzell P/N C2285-3 Spinner Assy (LH),  
Hartzell P/N C2285-3L Spinner Assy (RH),  
see A.V., note 9.
- Governor: 1 Hartzell Hydraulic Governor Model E-3-2 (LH),  
1 Hartzell Hydraulic Governor Model E-3-2L (RH); or  
1 Hartzell Hydraulic Governor Model E-8-2L (RH) with synchrophaser (Piper Drawing No. 36889 Synchrophaser Installation, S/N 44-7995278 and up).
- 6.2 Propeller 2: For aeroplane S/Ns 44-7995001 through 44-8195026 only:
- 1 Hartzell, Hub HC-C3YR-2EUF, Blade Model FC7663-5R (LH propeller)
  - 1 Hartzell, Hub HC-C3YR-2LEUF, Blade Model FJC7663-5R (RH propeller)
- Pitch: High  $82.0^{\circ} \pm 1^{\circ}$ , Low  $10.6^{\circ} \pm 0.1^{\circ}$ , at 0.762 m (30") station.
- Diameter: Not over 1.854 m (73.0"), not under 1.829 m (72.0").
- Spinner: Hartzell P/N C4558 Spinner Assy (LH),  
Hartzell P/N C4558 Spinner Assy (RH)  
see A.V., note 9.

- Governor: 1 Hartzell Hydraulic Governor Model E-3-2 (LH),  
1 Hartzell Hydraulic Governor Model E-3-2L (RH); or  
1 Hartzell Hydraulic Governor Model E-8-2L (RH) with  
synchrophaser (Piper Drawing No. 36889 Synchrophaser  
Installation, S/N 44-7995278 and up).
- 6.3 Propeller 3: For aeroplane S/Ns 4495001 through 4495013, and 4496001 and  
up only:  
  
1 Hartzell, Hub HC-C2Y(K, R) -2CEUF,  
Blade Model C7666A-2R (LH propeller)  
1 Hartzell, Hub HC-C2Y(K, R) -2CLEUF,  
Blade Model FJC7666A-2R (RH propeller)
- Pitch: High  $80.0^{\circ} \pm 1^{\circ}$ , Low  $12.4^{\circ} \pm 0.2^{\circ}$ , at 0.762 m (30") station.
- Diameter: Not over 1.880 m (74.0"), not under 1.829 m (72.0").
- Spinner: Hartzell P/N C2285-3 Spinner Assy (LH),  
Hartzell P/N C2285-3L Spinner Assy (RH)  
see A.V., note 9.
- Governor: 1 Hartzell Hydraulic Governor Model U-3-15 (LH) with  
unfeathering accumulator,  
1 Hartzell Hydraulic Governor Model U-3-15L (RH) with  
unfeathering accumulator.
- The EASA Propeller Type Certification standard includes that of  
FAA TCDS P-920 and FAA TCDS P25EA (in accordance with  
EC 1702/2003, Article 2, para. 3. (a)).
7. Fluids:
- 7.1 Fuel: 100/100LL minimum grade aviation gasoline,  
for alternate fuels see latest revision of Lycoming SI 1070.
- 7.2 Engine Oil: In accordance with latest revision of Lycoming SI 1014.
8. Fluid capacities:
- 8.1 Fuel: Total: 416 liters (110 US gal) in 2 nacelle tanks  
Usable: 408 liters (108 US gal) in 2 nacelle tanks
- 8.2.Oil (per engine): For aeroplanes S/Ns 44-7995001 through 44-8195026 only:  
Maximum: 5.7 liters (6 qts)  
Minimum: 1.9 liters (2 qts)
- For aeroplanes S/Ns 4495001 through 4495013, and 4496001 and  
up only:  
Maximum: 7.6 liters (8 qts)  
Minimum: 1.9 liters (2 qts)

9. Air Speeds:

Design Manoeuvring Speed, $v_A$ (1724 kg (3800 lb))	135 KIAS
Design Manoeuvring Speed, $v_A$ (1225 kg (2700 lb))	112 KIAS
Never Exceed Speed $v_{NE}$	202 KIAS
Maximum Structural Cruising Speed, $v_{NO}$	169 KIAS
Maximum Flap Extend Speed, $v_{FE}$	111 KIAS
Maximum Landing Gear Operating Speed, $v_{LO}$	
Extension	140 KIAS
Retraction	109 KIAS
Maximum Landing Gear Extended Speed, $v_{LE}$	140 KIAS
Minimum Control Speed $v_{MC}$	56 KIAS

10. Maximum Operating Altitude: no limitation specified

11. Operational Capability: VFR Day and Night  
IFR Day and Night

12. Maximum Masses:

Ramp:	1731 kg (3816 lb)
Take-Off:	1724 kg (3800 lb)
Landing:	1724 kg (3800 lb)

13. Centre of Gravity Range (gear extended):

linear variation between given points

Weight kg (lb)	Fwd. Limit m (in) aft of datum	Aft Limit m (in) aft of datum
1724 (3800)	2.261 (89.0)	2.362 (93.0)
1542 (3400)	2.159 (85.0)	2.362 (93.0)
1270 (2800)	2.134 (84.0)	2.362 (93.0)

see also A.V. note 3

Moment change due to retracting landing gear is +9.44 kgm (+819 in-lb).

14. Datum: 1.99 m (78.4") forward of wing leading edge at WS 106

15. (Reserved)

16. Levelling Means: Two screws at the left side fuselage below window.

17. Minimum Flight Crew: 1 (Pilot)

18. Maximum Passenger Seating Capacity: 3, for passenger seating locations see applicable AFM/POH

19. Baggage / Cargo Compartments: 91 kg (200 lb) at 3.627 m (+142.8 in)

20. Wheels and Tyres:

20.1 Nose Wheel Tyre Size	5.00x5, 6 ply
20.2 Main Wheel Tyre Size	6.00x6, 8 ply

21. (Reserved)

22. Control Surface Movements: For approved control surface deflections see applicable Airplane Maintenance Manual (A.IV.).

#### **A.IV. Operating and Service Instructions**

Airplane Flight Manual AFM and  
Pilot's Operating Handbook (POH):

- a) Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-860 for variant PA-44-180 (Seminole), S/N 44-7995001 through 44-8195026.
- b) Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-1380 for variant PA-44-180 (Seminole), S/N 4495001 through 4495013.
- c) Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-1616 for variant PA-44-180 (Seminole), S/N 4496001 and up.
- d) DOA No. 510620-CE approved Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-1942 for variant PA-44-180 (Seminole) when equipped with the factory installed Avidyne Entegra option, S/N 4496174 and 4496224 and up.

Airplane Maintenance Manual (AMM):

P/N 761-664, latest approved revision, for S/N 44-7995001 through 4495013

P/N 761-892, latest approved revision for S/N 4496001 and up

Service Bulletins and Service Letters

#### **A.V. Notes**

1. Applicable Manufacturer's S/N and Certification Import Requirements:

- a) Basic aeroplane: S/N 44-7995001 and up
- b) Avidyne Entegra option: S/N 4496174 and 4496224 and up

In addition for import into EU-countries following requirements have to be met:

- PFD set-up has to be configured to display hPa (mbar) altimeter setting units.
- Pointer type altimeters (including stand-by altimeters) have to be either factory installed or installed in accordance with an approved change, and must have a hPa (mbar) barometric pressure setting scale.
- PFD/MFD fuel quantity and fuel flow units shall be configured in compliance with units displayed in the POH/AFM (see FAR/CS 23.1581c) .

2. reserved

3. Weight and Balance:

Current Weight and Balance Report, including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification.

The certificated empty weight and corresponding center of gravity locations must include undrainable system oil (not included in oil capacity) and unusable fuel as noted below:

Fuel: 5.4 kg (12.0 lb). at +2.413 m (+ 95.0 in)  
Oil: 1.6 kg (3.6 lb). at +1.748 m (+ 68.8 in)

4. Placards:  
All placards required in the approved Airplane Flight Manual or Pilot's Operating Handbook and approved Airplane Flight Manual or Pilot's Operating Handbook Supplements must be installed in the appropriate location.
5. Life Limitations:  
The service life of the wing and associated structure has been established as 14663 hours maximum.
6. Certification Basis for basic PA-44-180 (Seminole) aeroplanes:  
Federal Aviation Regulations (FAR) Part 23 effective February 1, 1965, through Amendment 23-16 effective February 14, 1975; FAR 23.1557(c)(1) as amended by Amendment 23-18 effective May 2, 1977;  
Equivalent Safety Finding: FAR 23.1545(a) (marking of ASI in IAS instead of CAS).
7. In addition to the certification basis defined in CRI-A01, latest revision, the applicable paragraphs for the factory installation of the Avidyne Entegra option are listed below. These CS requirements substitute the corresponding paragraphs of note 6.  
CS-23 (basic release):  
CS 23.301, 23.303, 23.305, 23.307, 23.337, 23.341, 23.473, 23.561, 23.601, 23.603, 23.605, 23.607, 23.609, 23.611, 23.613, 23.683, 23.771, 23.773, 23.777, 23.867, 23.955, 23.1301, 23.1303, 23.1305, 23.1307, 23.1309, 23.1311, 23.1321, 23.1322, 23.1323, 23.1325, 23.1327, 23.1329, 23.1331, 23.1335, 23.1337, 23.1351, 23.1353, 23.1357, 23.1359, 23.1361, 23.1365, 23.1367, 23.1381, 23.1431, 23.1501, 23.1523, 23.1525, 23.1529, 23.1541, 23.1543, 23.1545, 23.1549, 23.1553, 23.1555, 23.1563, 23.1581, 23.1583, 23.1585
8. Type Design Definition of TCDS relevant changes:
  - a) Factory installed Avidyne Entegra option: New Piper report number VB-1940
9. The PA-44-180, S/N 44-7995001 through 44-8195026, may be operated without spinner domes or without spinner domes and rear bulkheads, except when equipped with three-bladed propellers and air conditioning, in which case only the spinner dome may be removed.  
  
The PA-44-180, S/N 4495001 through 4495013, and 4496001 and up, may be operated with only the spinner dome removed.
10. PA-44-180, S/N4495001 and on, differ from PA-44-180, S/Ns 44-7995001 through 44-8195026, not only because of a different engine model installed but also because of major powerplant installation differences.

## **SECTION B: PA-44-180T (Turbo Seminole)**

### **B.I. General**

1. a) Type: PA-44  
b) Variant: PA-44-180T (Turbo Seminole)
2. Airworthiness Category: Normal Category
3. Type Certificate Holder: Piper Aircraft, Inc  
2926 Piper Drive  
Vero Beach, Florida 32960  
U.S.A.
4. Manufacturer: Piper Aircraft, Inc  
2926 Piper Drive  
Vero Beach, Florida 32960  
U.S.A.
5. EASA Certification Application Date: N/A
6. EASA Type Certification Date: 28 September 2003 (in accordance with EC 1702/2003,  
Article 2, para. 3. (a))

### **B.II. Certification Basis**

1. Reference Date for determining the applicable requirements: Date of application for FAA TC for Model PA-44-180T (Turbo Seminole)  
6 September 1978
2. (Reserved)
3. (Reserved)
4. Certification Basis: For the basic PA-44-180T (Turbo Seminole) aeroplane the applicable certification basis is FAR 23. For details on the applicable FAR 23 amendments see B.V., note 6.
5. Airworthiness Requirements: FAR 23 for the basic PA-44-180T (Turbo Seminole) aeroplane (for applicable amendments see B.II., 4).
6. Requirements elected to comply: None
7. Special Conditions: None
8. Exemption: None
9. Equivalent Safety Findings: None
10. Environmental Standards: ICAO Annex 16, Volume 1, Chapter 6

### **B.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: Piper Report number VB-1052
  
2. Description: Twin engine reciprocating, turbo charged, all-metal, four-place, unpressurized, low wing aeroplane, retractable tricycle landing gear.
  
3. Equipment: For approved equipment, see applicable AFM/POH, section 6. (For applicable AFM/POH see B.IV.).
  
4. Dimensions:
  - Span 11.75 m (38.6 ft)
  - Length 8.41 m (27.6 ft)
  - Height 2.59 m (8.5 ft)
  - Wing Area 17.08 m<sup>2</sup> (184 sqf)
  
5. Engine:
  - 1 Lycoming TO-360-E1A6D, carburetor setting 10-5256, (LH engine),
  - 1 Lycoming LTO-360-E1A6D, carburetor setting 10-5256, (RH engine).

The EASA Engine Type Certification standard includes that of FAA TCDS E26EA (in accordance with EC 1702/2003, Article 2, para. 3. (a)).

- 5.1 Engine Limits: For all operations:  
36.5 inHg @ 2575 RPM (180 HP)

For other powerplant limitations refer to the applicable AFM/POH, section 2.

6. Propellers:
  - 6.1 Propeller 1:
    - 1 Hartzell, Hub HC-C2YR-2C ( )UF,  
Blade Model FC7666A-2R or FC7666AB-2R (LH propeller)
    - 1 Hartzell, Hub HC-C2YR-2CL ( )UF,  
Blade Model FJC7666A-2R or FJC7666AB-2R (RH propeller)
  
    - Pitch: High 80.0° ±1°, Low 13.1° ± 0.2°, at 0.762 m (30") station.
  
    - Diameter: Not over 1.880 m (74.0"), not under 1.829 m (72.0").
  
    - Spinner: Hartzell P/N C2285-3 Spinner Assy (LH),  
Hartzell P/N C2285-3L Spinner Assy (RH)
  
    - Governor: 1 Hartzell Hydraulic Governor Model E-3-5 (LH), or  
1 Hartzell Hydraulic Governor Model U-3-10 (LH) with  
unfeathering accumulator,  
  
1 Hartzell Hydraulic Governor Model E-3-5L (RH), or  
1 Hartzell Hydraulic Governor Model U-3-10L (RH) with  
unfeathering accumulator, or

1 Hartzell Hydraulic Governor Model E-8-5L (RH) with synchrophaser (Piper Drawing 86818-2), or  
1 Hartzell Hydraulic Governor Model U-8-10L (RH) with unfeathering accumulator and synchrophaser installation (Piper Drawing 86818-2).

6.2 Propeller 2:

1 Hartzell, Hub HC-C3YR-2 ( )UF, Blade Model FC7663-5R or FC7663B-5R (LH propeller),  
1 Hartzell, Hub HC-C3YR-2L ( )UF, Blade Model FJC7663-5R or FJC7663B-5R (RH propeller).

Pitch: High  $82.0^{\circ} \pm 1^{\circ}$ , Low  $11.2^{\circ} \pm 0.1^{\circ}$ , at 0.762 m (30") station.

Diameter: Not over 1.854 m (73.0"), not under 1.829 m (72.0").

Spinner: Hartzell P/N C4558 Spinner Assy (LH),  
Hartzell P/N C4558 Spinner Assy (RH)

Governor: 1 Hartzell Hydraulic Governor Model E-3-5 (LH), or  
1 Hartzell Hydraulic Governor Model U-3-10 (LH) with unfeathering accumulator,

1 Hartzell Hydraulic Governor Model E-3-5L (RH), or  
1 Hartzell Hydraulic Governor Model U-3-10L (RH) with unfeathering accumulator, or  
1 Hartzell Hydraulic Governor Model E-8-5L (RH) with synchrophaser (Piper Drawing 86818-2), or  
1 Hartzell Hydraulic Governor Model U-8-10L (RH) with unfeathering accumulator and synchrophaser installation (Piper Drawing 86818-2)

"Avoid continuous operation at manifold pressures below 15 "Hg above 12.000 ft altitude."

The EASA Propeller Type Certification standard includes that of FAA TCDS P-920 and FAA TCDS P25EA (in accordance with EC 1702/2003, Article 2, para. 3. (a)).

7. Fluids:

7.1 Fuel: 100/100LL minimum grade aviation gasoline,  
for alternate fuels see latest revision of Lycoming SI 1070.

7.2 Engine Oil: In accordance with latest revision of Lycoming SI 1014.

8. Fluid capacities:

8.1 Fuel: Total: 416 liters (110 US gal) in 2 nacelle tanks  
Usable: 408 liters (108 US gal) in 2 nacelle tanks

8.2.Oil (per engine): Maximum: 5.7 liters (6 qts)  
Minimum: 1.9 liters (2 qts)

9. Air Speeds:

Design Manoeuvring Speed, $v_A$ (1780 kg (3925 lb))	137 KIAS
Design Manoeuvring Speed, $v_A$ (1225 kg (2700 lb))	112 KIAS
Never Exceed Speed $v_{NE}$	202 KIAS
Maximum Structural Cruising Speed, $v_{NO}$	170 KIAS
Maximum Flap Extend Speed, $v_{FE}$	111 KIAS
Maximum Landing Gear Operating Speed, $v_{LO}$	
Extension	140 KIAS
Retraction	109 KIAS
Maximum Landing Gear Extended Speed, $v_{LE}$	140 KIAS
Minimum Control Speed $v_{MC}$	57 KIAS

10. Maximum Operating Altitude: 20.000 ft

11. Operational Capability: VFR Day and Night  
IFR Day and Night

12. Maximum Masses:

Ramp:	1789 kg (3943 lb)
Take-Off:	1780 kg (3925 lb)
Landing:	1724 kg (3800 lb)

13. Centre of Gravity Range (gear extended):

linear variation between given points

Weight kg (lb)	Fwd. Limit m (in) aft of datum	Aft Limit m (in) aft of datum
1780 (3925)	2.278 (89.7)	2.362 (93.0)
1724 (3800)	2.217 (87.3)	2.362 (93.0)
1542 (3400)	2.159 (85.0)	2.362 (93.0)
1225 (2700)	2.108 (83.0)	2.362 (93.0)

see also B.V. note 3

14. Datum: 1.99 m (78.4") forward of wing leading edge at WS 106.

15. (Reserved)

16. Levelling Means: Two screws at the left side fuselage below window

17. Minimum Flight Crew: 1 (Pilot)

18. Maximum Passenger Seating Capacity: 3, for passenger seating locations see applicable AFM/POH

19. Baggage / Cargo Compartments: 91 kg (200 lb) at 3.627 m (+142.8 in)

20. Wheels and Tyres:

20.1 Nose Wheel Tyre Size	5.00x5, 6 ply
20.2 Main Wheel Tyre Size	6.00x6, 8 ply

21. (Reserved)

22. Control Surface Movements: For approved control surface deflections see applicable Airplane Maintenance Manual (B.IV.).

#### **B.IV. Operating and Service Instructions**

Airplane Flight Manual AFM and  
Pilot's Operating Handbook (POH):

- a) Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-1100 for variant PA-44-180T (Turbo Seminole),  
S/N 44-8107001 through 44-8207020

Airplane Maintenance Manual (AMM):

P/N 761-664, latest approved revision  
S/N 44-8107001 through 44-8207020

Service Bulletins and Service Letters

#### **B.V. Notes**

1. Applicable Manufacturer's S/N: S/N 44-8107001 through 44-8207020
2. reserved

3. Weight and Balance:

Current Weight and Balance Report, including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification.

The certificated empty weight and corresponding center of gravity locations must include undrainable system oil (not included in oil capacity) and unusable fuel as noted below:

Fuel: 5.4 kg (12.0 lb). at +2.413 m (+ 95.0 in)  
Oil: 1.6 kg (3.6 lb). at +1.748 m (+ 68.8 in)

4. Placards:

All placards required in the approved Airplane Flight Manual or Pilot's Operating Handbook and approved Airplane Flight Manual or Pilot's Operating Handbook Supplements must be installed in the appropriate location

5. Life Limitations:

The service life of the wing and associated structure has been established as 16462 hours maximum.

6. Certification Basis for basic PA-44-180T (Turbo Seminole) aeroplanes:

Federal Aviation Regulations (FAR) Part 23 effective February 1, 1965, through Amendment 23-16 effective February 14, 1975; FAR 23.207 and 23.1091 as amended by Amendment 23-7 effective September 14, 1969; FAR 23.201 and 23.203 as amended by Amendment 23-14 effective December 20, 1973; FAR 23.1093 and 23.1557(c)(1) as amended by Amendment 23-18 effective May 2, 1977; FAR 23.1581(b)(2) as amended by Amendment 23-21 effective March 1, 1978; FAR 23.1545(a) as amended by Amendment 23-23 effective December 1, 1978; compliance with FAR 23.1441 as amended by Amendment 23-9 effective June 17, 1970, shown with optional supplemental oxygen.

## **Change Record**

<b>Issue</b>	<b>Date</b>	<b>Changes</b>
Issue 1	28-Feb-2007	Initial issue to record EASA approval of Avidyne Entegra installation

- END -