

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

Number SA3102NM

This certificate, issued to Tulare Aircraft Service, Inc.

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 4b of the Civil Air Regulations.

Original Product — Type Certificate Number: 4A10

Make: McDonnell Douglas

Model: DC-7B (Serial Nos. as listed on Page 4, Item 401).

Description of Type Design Change: Installation of military model R-3350-42 (STC No. SE2004NM) or R-3350-93 (STC No. SE2007NM) engines shall be in accordance with Appendix 1 and 2 of T.B.M., Inc. Report 70/77-01 (for R-3350-42) or 70/77-02 (for R-3350-93) dated 1/12/85, or later FAA approved revisions. The applicable FAA approved Douglas DC-7B Airplane Flight Manual Report including the FAA approved Tulare Aircraft Service, Inc. Airplane Flight Manual Supplement to the Report as specified on Page 4, Item 401, and an FAA approved Appendix for Limitations and Performance for use with 100/130 grade fuel are required as part of this installation.

Limitations and Conditions: The approval of this change in type design applies to certain McDonnell Douglas Model DC-7B airplanes only. This approval should not be extended to other specific airplanes of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that airplane. (Refer to 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.

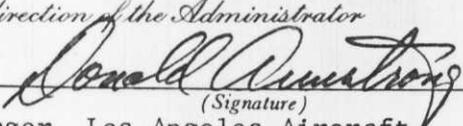
Date of application: January 12, 1985

Date reissued:

Date of issuance: November 7, 1985

Date amended:



By direction of the Administrator
acting 
 (Signature)
 Manager, Los Angeles 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.

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The limitations and conditions of Type Certificateion Data Sheet No. 4A10 apply except for the following additional information which supplements the like numbered sections of the Data Sheet:

II - Model DC-7B

Engines: Curtis Wright Military model R-3350-42 (STC No. SE2004NM) or R-3350-93 (STC No. SE2007NM)

Fuel : Aviation gasoline - Grade 100/130 minimum

Engines limits : (Straight line manifold pressure variation with altitudes shown). (See Note 2 of Data Sheet No. 4A10 for additional limitations and placards).

Note: Auto-rich settings must be used for all operations, including cruise.

	HP	RPM	MP In Hg	Alt
Wright R-3350-42 (STC No. SE2004NM)				
Low impeller gear ratio 6.46.1				
Takeoff (two minutes) (dry)	2880	2900	51.0	S.L.
Takeoff (two minutes) (dry) (critical altitude)	2950	2900	48.0	8,500'
Maximum continuous	2380	2600	43.5	S.L.
Maximum continuous	2450	2600	41.5	9,400'

High impeller gear ratio: Operation with any grade fuel is not permitted.

Wright R-3350-93 (STC No. SE2007NM)				
Low impeller gear ratio 6.46.1				
Takeoff (two minutes) (dry)	2880	2900	52.0	S.L.
Takeoff (two minutes) (dry)	2940	2900	50.0	7,300'
Maximum continuous	2380	2600	44.5	S.L.
Maximum continuous	2440	2600	42.5	8,800'

High impeller gear ratio: Operation with any grade fuel is not permitted.

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Airplane weight limitations contained in the FAA approved Appendix for Limitations and Performance for use with 100/130 grade fuel apply. Additionally for performance with one or more R-3350-93 (STC No. SE2007NM) engines installed, weight increments are applied in accordance with FAA approved Tulare Aircraft Service, Inc. AFM supplement specified under Interior Equipment Item 401 below.

Equipment: Propellers and Propeller Accessories Items 1.(a) and (b) of Data Sheet No. 4A10 are required.

Interior Equipment

401. FAA Approved Airplane Flight Manual Requirements.

	<u>Airplane Serial Number</u>	<u>Douglas Report No.</u>	<u>Latest Approved Revision Number</u>	<u>Date of Latest Approved Revision</u>
(f)	44852-44858 44860-44863 45082-45089 45330-45349 45447-45451 45453-45454 45456	SM-18875(*)(**)	14	3/21/67
(i)	44921-44925 45232-45239 45397-45407	SM-19618(*)(**)	11	3/21/67
(s)	45311-45314 45350-45355	SM-22809(*)(**)	5	7/25/67

(*) FAA approved Tulare Aircraft Service, Inc. Airplane Flight Manual Supplement to the applicable Douglas Report dated 11/4/85 or later FAA approved revisions must be included.

(**) An FAA approved Appendix for Limitations and Performance for use with 100/130 grade fuel must be included. (Identify as Appendix A).

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