

Supplemental Type Certificate

IMPORT

Number SA02725NY

This certificate issued to

Diamond Aircraft Industries Inc.
1560 Crumlin Side Road
London, Ontario
Canada N5V 1S2

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product -- Type Certificate Number: A57CE

Make: Diamond DA 42 Aircraft

Model: DA-42

Description of Type Design Change: Installation of Lycoming IO-360 M1A series engines with MTV-12-B-C-F series propellers.

Limitations and Conditions:

1. Installation shall be in accordance with Diamond Aircraft Industries Inc. Installation Instructions D42L-STC-004 Installation Instructions for Lycoming IO-360 M1A/ LIO-360 M1A Engines, Rev 1, dated August 6, 2009 or later Transport Canada approved revisions.
2. Aircraft shall be operated in accordance with Diamond Aircraft Industries Inc. Aircraft Flight Manual D42L-AFM-002, Revision 04, dated August 18, 2009 or later Transport Canada approved revision.

NOTE: This Aircraft Flight Manual replaces the Flight Manual required by Type Certificate A57CE in its entirety.

(See Continuation Sheet 2 of 2)

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: November 10, 2008

Date reissued:

Date of issuance: August 19, 2009

Date amended:

By direction of the Administrator



(Signature)

Anthony Socias
Manager
New York Aircraft Certification Office

(Title)

United States of America
 Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA02725NY

Limitations and Conditions (Continued):

3. Maintenance shall be in accordance with Diamond Aircraft Industries Inc. Aircraft Maintenance Manual D42L-AMM-001, Initial Issue, dated June 1, 2009 or later Transport Canada accepted revision.

Limitations

	Left Side	Right Side
Engine	Lycoming IO-360-M1A	Lycoming LIO-360-M1A
Fuel	100 LL Avgas	
Oil	SAEJ1966/MIL-L-6082 (SAE 20-W50 Type M (First 50 Hours) (Mineral Oil) SAEJ1899/MIL-L-22851 (SAE 15-W50, SAE 20-W50 – After 50 Hours) Ashless Dispersant Oil	
Engine Limits	Take Off Power 180 HP (5 Minutes) Max Continuous Power : 160 HP	
Propeller	MT Propeller MTV-12-B-C-F/CF183-59b	MT Propeller MTV-12-B-C-F/CFL183-59b
Propeller Limits	2700 RPM	2700 RPM

4. The Installer must determine whether this design change is compatible with previously approved modifications.
5. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

Certification Basis

The certification basis for the modified aircraft is as follows:
 14 CFR part 23, effective February 1, 1965, includes Amendments 23-1 through 23-55.

Equivalent Safety Findings:

Equivalent FAA safety Findings for 14 CFR part 23, §23.207, Stall Warning as documented in ELOS MEMO ACE-09-14, dated August 19, 2009.

Special Condition

Existing Special Condition 23-167-SC as related to EFIS for, “Protection of Systems for High Intensity Radiated Fields”.

.....END.....

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

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