Airworthiness Directive

AD No.: 2018-0133
[Correction: 25 June 2018]

Issued: 22 June 2018

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:
DAHER AEROSPACE

Type/Model designation(s):
TBM 700 aeroplanes

Effective Date:	02 July 2018
TCDS Number(s):	EASA.A.010
Foreign AD:	Not applicable
Supersedure:	None

ATA 79 – Oil – Oil Cooler Air Induction Duct – Modification

Manufacturer(s):
Compagnie DAHER, formerly SOCATA, EADS SOCATA, Société de Construction d'Avions de Tourisme et d'Affaires

Applicability:
TBM 700 aeroplanes, all manufacturer serial numbers.

Definitions:
For the purpose of this AD, the following definitions apply:

The SB: DAHER Aerospace Service Bulletin (SB) 70-254-79.

Affected part: Oil cooler air induction ducts, having part number (P/N) T700H792001900600, P/N T700H792001900400, P/N T700A7920040001, P/N T700H792001900200, P/N T700H792001900000, or P/N T700H792000900000.

Groups: Group 1 aeroplanes are those that have an affected part installed. Aeroplanes on which DAHER AEROSPACE modification (MOD) 70-0435-79 has been embodied in production, or DAHER AEROSPACE SB 70-231-79 original issue, or SB 70-219-24 original issue or Revision 1, as applicable, has been embodied in service are Group 1 aeroplanes. Group 2 aeroplanes are those that do not

have an affected part installed. An aeroplane on which DAHER AEROSPACE MOD70-0616-79 has been embodied in production is Group 2, provided the aeroplane remains in that configuration.

Reason:

During flight testing in icing conditions, oil temperature increase was observed. Subsequent investigation determined that the loss of efficiency of the oil cooler system was due to ice accumulation on the engine air induction duct fin.

This condition, if not corrected, could lead to uncommanded engine in-flight shut-down and reduced control of the aeroplane.

To address this potential unsafe condition, DAHER AEROSPACE developed MOD70-0616-79 for aeroplanes in production, removing the 4 upper fins of the oil cooler air induction duct to avoid ice accumulation, available for in-service aeroplanes through the SB.

For the reasons described above, this AD requires modification of the oil cooler air induction duct.

This AD is re-published to correct the TCDS number and to update the Design Approval Holder's contact details.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Modification:

(1) For Group 1 aeroplanes: Within 3 months after the effective date of this AD, modify and re-identify the oil cooler air induction duct in accordance with the instructions of the SB.

Parts Installation:

(2) Do not install an affected part on any aeroplane, as required by paragraph (2.1) or (2.2) of this AD, as applicable.

(2.1) For Group 1 aeroplanes: After modification of the aeroplane as required by paragraph (1) of this AD.

(2.2) For Group 2 aeroplanes: From the effective date of this AD.

Ref. Publications:

DAHER AEROSPACE SB 70-254-79 original issue dated April 2018.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.

2. This AD was posted on 06 June 2018 as PAD 18-078 for consultation until 20 June 2018. No comments were received during the consultation period.

3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.

4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the EU aviation safety reporting system.

5. For any question concerning the technical content of the requirements in this AD, please contact:
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