

# MANDATORY SERVICE BULLETIN

## NO. MSB-42-039

### **I TECHNICAL DETAILS**

#### **I.1 Category**

Mandatory

#### **I.2 Airplanes affected**

Type: DA 42

Serial Numbers: 42.005 up to and incl. 42.170,  
42.177  
42.AC001 up to and incl. 42.AC027

#### **I.3 Time of Compliance**

At next engine change (TAE 125-01 engine)

#### **I.4 Subject**

Installation of a redesigned breather line and a new oil separator

ATA-Code: 79

#### **I.5 Reason**

A design change in the turbo charging system from Thielert Aircraft Engines requires also the replacement of the oil separator and the breather line.

#### **I.6 Concurrent Documents**

Thielert Repair Manual RM-02-01, latest effective issue.

### **I.7 Approval**

The technical information or instructions contained in this document relate to the Design Change Advisory No. MÄM 42-176/c, which has been approved under the authority of DOA No. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA No. EASA.21J.052.

### **I.8 Accomplishment / Instructions**

WI-MSB-42-039, latest effective issue must be complied with.

### **I.9 Mass (Weight) and CG**

Negligible

## **II PLANNING INFORMATION**

### **II.1 Material & Availability**

The Work Instruction WI-MSB-42-039 and appropriate necessary materials are available through DAI.

### **II.2 Special Tools**

None

### **II.3 Credit**

Kit MSB-42-039-KIT  
0.5 man hours of work

### **II.4 Labor effort:**

approximately 0.5 hours additional to effort of engine change.

### **II.5 Reference Documents**

DA 42 Series Airplane Maintenance Manual Doc. No. 7.02.01, latest effective issue  
WI-MSB-42-039, latest effective issue.

### **III REMARKS**

1. All measures must be carried out by a certified aircraft station or a certified aircraft mechanic.
2. Accomplishment of the measures must be confirmed in the log book.
3. In case of any doubt, contact Diamond Aircraft Industries.

# WORK INSTRUCTION

## WI-MSB-42-039

### „REDESIGN OF BREATHER LINE AND OIL SEPARATOR “

## **I GENERAL INFORMATION**

### **I.1 Subject:**

Modification of the breather line and installation of a new oil separator, necessary at next engine change (TAE125-01).

### **I.2 Reference Documents:**

Diamond Aircraft DA 42 Series Airplane Maintenance Manual, Doc. No. 7.02.01, latest effective issue.

### **I.3 Remarks:**

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic. In case of doubt, contact Diamond Aircraft.
- b) All works, particularly those that are not especially described in this work instruction, have to be carried out in accordance with the referenced maintenance manual.

## **II DRAWINGS, SPECIAL TOOLS & MATERIALS**

### **II.1 Drawings:**

None

### **II.2 Special Tools:**

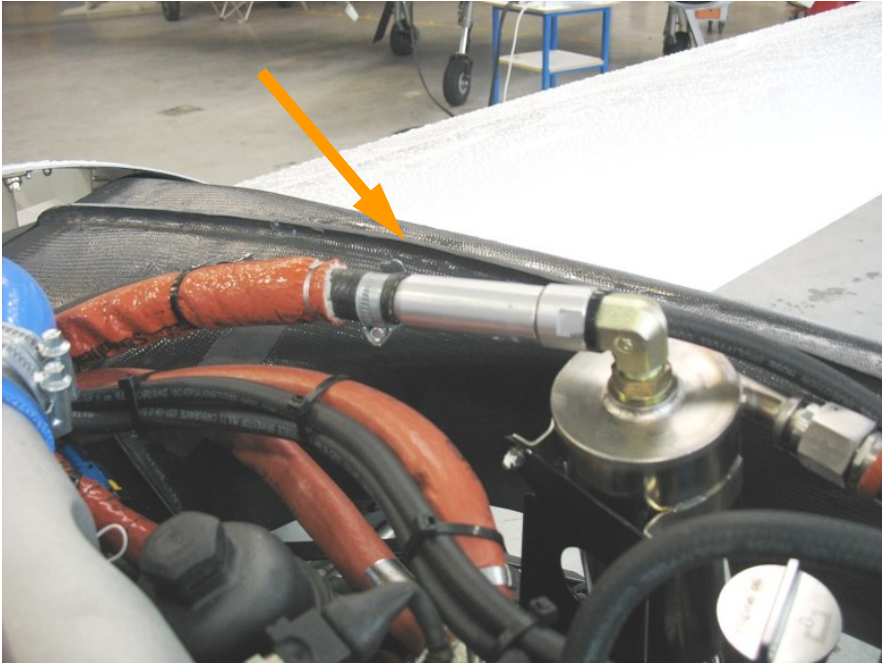
None

### II.3 Material

Qty	Description	Part Number
1	Oil Separator (TAE)	02-7250-18310xx
1	Fitting	600394
1	breather inner part	D60-7906-40-30
1	breather outer part	D60-7906-40-31
2 (a.r.)	Tie wrap	PLT4SM30
a.r.	Safety wire	MS20995C025-1LB

### III INSTRUCTIONS

	<p><b>Note:</b></p> <p>This Work Instructions contains additional instructions which have to be carried out at the next engine change (from / to TAE 125-01 only). It assumes that the Mandatory Service Bulletin MSB 42-016 has been carried out.</p>
1	Remove oil separator and 90° fitting.
2	Screw item D60-7906-40-30 into item D60-7906-40-31 and secure with loctite 243

3	<p>Install new oil separator and new breather line according the following picture of this WI. Shorten breather line and fire sleeve as required and install breather line bypass (D60-7906-40-30 / D60-7906-40-31) acc. to picture.</p> 
4	Clean working area, check for foreign objects.
5	Check new installed items and all systems in working area for proper function.
6	Make appropriate entries into aircraft log.