



**Airworthiness
Directive
D-2005-370**

Luffahrt-Bundesamt
Airworthiness Directive Section
Hermann-Blenk-Str. 26
38108 Braunschweig
G E R M A N Y

This Airworthiness Directive supersedes the LBA-AD D-2004-060R1 of 30 January 2004

HOFFMANN

Effective Date: 04 October 2005

Affected:

Kind of aeronautical product: Propeller
Manufacturer: Hoffmann GmbH & Co. KG, K pferlingstra e, Rosenheim, Germany
Type: HO-V62
Models affected: HO-V62R/L160BT
Serial numbers affected: All propellers of the a.m. model installed on Diamond Aircraft H36 DIMONA in combination with the engines Limbach L2400() or Sauer SS2100()
German Type Certificate No.: 32.130/13

Subject:

Rupture of pitch control rods due to fatigue problems.

Reason:

The Luffahrt-Bundesamt has been informed about several cases of broken pitch control rods on the affected propeller model. Investigations performed by the manufacturer revealed that fatigue problems are the root cause for these failures. In order to reduce the stress level of the pitch control rods to an acceptable value the manufacturer has developed the modification "Rev. P" for the hub and the pitch control rods.

The actions specified by this Airworthiness Directive are intended to prevent the rupture of pitch control rods due to fatigue problems which could result in loss of propeller controllability during critical flight phases.

Action:

The following actions are required by this Airworthiness Directive:

1. Inspection of the pitch control rods to detect cracks and ruptures.
2. Modification of the propeller hub and pitch control rods to the modification status "Rev. P". These modifications have to be performed by the manufacturer only.

All necessary actions must be performed in accordance with the referenced manufacturer Service Bulletin.

Compliance:

The necessary actions must be accomplished within the following compliance times:

- Action 1: Before the first flight of the day. This inspection is no longer required when the modification "Rev. P" has been incorporated.
- Action 2: During the next disassembly of the propeller but not later than 31 December 2005, whichever occurs first.

Technical publication of the manufacturer:

HOFFMANN PROPELLER Service Bulletin 61-11-03 E 16 of 29 August 2005. This Service Bulletin becomes herewith part of this Airworthiness Directive and can be obtained from:

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EASA-Approval

Approved by the European Aviation Safety Agency (EASA) under approval number 2005-6346 on 28 September 2005.

Enquiries regarding this Airworthiness Directive should be referred to Mr. Martin Borsum, Airworthiness Directive Section at the above address, fax-no. +49-531-2355-725 or m.borsum@lba.de. Please note, that in case of any difficulty, reference should be made to the German issue!