

## MICROLIGHT AIRWORTHINESS APPROVAL NOTE

MAAN NO: 2399

ISSUE 1

DATE: 24 APRIL 2012

TITLE: Microlight Airworthiness Approval Note 2399: inspection of Kievprop183 on UK Air Création Tanarg aircraft

APPLICABILITY: UK Air Création Tanarg aircraft fitted with Kievprop183

STAGE: AUTHORISATION

### 1. INTRODUCTION

The Air Création Tanarg is an amateur built microlight aeroplane described in Microlight HADS HM16. The BMAA is responsible for continued airworthiness.

This MAAN authorises the issue of a service bulletin in response to in-service experience of this type. The service bulletin relates to inspection of the Kievprop183 propeller.

### 2. BASIS FOR APPROVAL

The basis for approval of this aircraft is BCAR Section S.

### 3. DESCRIPTION

A UK Air Création Tanarg fitted with a Kievprop183 propeller has suffered 2 cases of cracking of the blades. Kievprop has had reported isolated instances of similar cracks developing in Kievprop type 183 blades in fixed-wing pusher installations.

UK Tanarg Service Bulletin 2399, appended to this MAAN, highlights the potential problem to owners and emphasises the importance of inspecting the propeller blades as part of the pre-flight inspection.

### 4. TECHNICAL INVESTIGATION

Kievprop has had reported isolated instances of similar cracks developing in Kievprop type 183 blades in fixed-wing pusher installations.

Unlike in a tractor installation, in a pusher installation the prop is in the wake of the upstream airframe. This wake is, almost by definition, asymmetric. This asymmetry will cause additional cyclical loading in the blades over a tractor installation.

Apparently the cracks form at a discontinuity in the blade structure. It appears that the cyclical loading due to the asymmetric wake can initiate a fatigue crack at the stress concentration associated with this discontinuity in the blade structure.

### 5. FLIGHT TESTING

Not applicable.

6. MANUALS, PLACARDS AND INFORMATION

A copy of this service bulletin must be retained with the Aircraft Manual.

7. NOISE CERTIFICATION

Not affected.

8. RADIO

Any radio installation is not affected.

9. INSPECTION

To the service bulletin appended to this MAAN and HADS HM16 in its latest version.

10. WEIGHT AND BALANCE

Not affected.

11. SIGNIFICANT FEATURES AND LIMITATIONS

See section 3. All limitations remain unchanged.

12. CERTIFICATION

I authorise issue of UK UK Air Création Tanarg Service Bulletin 2399 issue 1, as appended to this MAAN.

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Initial Distribution.

MAAN (including SB):  
CAA Aircraft Certification Section (Gatwick)  
CAA Applications and Approvals Section (Gatwick)  
Mr P Dewhurst, Flylight Airsports Ltd  
MAAN File 2399

Service bulletin:  
Owners of applicable aircraft



## BRITISH MICROLIGHT AIRCRAFT ASSOCIATION SERVICE BULLETIN

**Reference:** UK Air Création Tanarg Service Bulletin 2399 issue 1  
**Title:** Inspection of Kievprop183 propeller blades  
**Applicability:** UK Air Création Tanarg aircraft with Kievprop183 propeller, S/N below 183365  
**Author:** Paul Dewhurst, Flylight Airsports Ltd  
**Effective date:** 24 April 2012  
**Classification:** Essential

### Introduction

On one UK aircraft there have been 2 cases of cracks found on the forward / curved face of the propeller blade in near identical positions.



**Figure one – crack on propeller blade**

Kievprop have had reported isolated instances of similar cracks developing using Kievprop type 183 blades in fixed-wing pusher installations when fitted to the Rotax 912ULS powerplant.

Propellor blades with serial numbers at 183365 and above are manufactured with reinforcing to reduce possibility of recurrence.

### Action

Owners should carefully examine propeller blades for cracks – particularly in the area shown above before every flight.

If cracks are found the aircraft should not be flown until replacement propeller blades are fitted, and it should be reported to the UK importer, Flylight Airsports Ltd, and to the BMAA.

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