

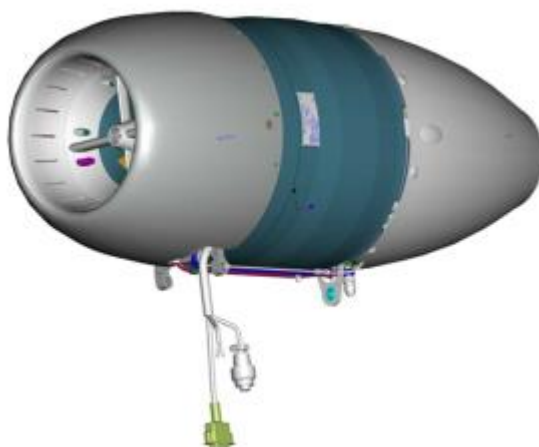


# **BULLETIN**

## **No. B19311066**

### **TURBOJET ENGINE**

#### **TJ100B, TJ100E3S, TJ100E3B**



**The technical content of this document is approved  
under the authority of DOA No.: EASA.21J.118.**


<b>Content:</b>	Periodical inspection of the turbine blades
<b>Issued by:</b>	PBS Velká Bíteš, a. s.
<b>Date of issue:</b>	30/09/2024, Revision 1 This Revision fully substitutes the previous issue from 19/12/2019
<b>Bulletin type:</b>	Mandatory

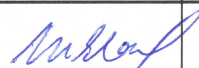

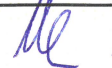

**BULLETIN**

**TURBOJET ENGINE**

**TJ100B, TJ100E3S, TJ100E3B**

**APPROVAL SHEET**

Elaborated by:	Name, Post:	Signature:	Date:
PBS Velká Bíteš a.s.	Tomáš Hubáček Designer (D)		30 -09- 2024

Agreed by:	Name, Post:	Signature:	Date:
PBS Velká Bíteš a.s.	Libor Neklapil Design Engineer (DE)		30 -09- 2024
PBS Velká Bíteš a.s.	Libor Neklapil Head of Design Department (HDD)		30 -09- 2024
PBS Velká Bíteš a.s.	Roman Kolka Head of Design Organisation (HDO)		30 -09- 2024
Approved by:	Name, Post:	Signature:	Date:
PBS Velká Bíteš a.s.	Aleš Derfíňák Head of Office of Airworthiness (HOoA)		30 -09- 2024

**1. VALID FOR THE AIRCRAFT:**

All.

**2. SUBJECT MATTER – PRODUCT IDENTIFICATION:**

Turbojet engine:

TJ100B; P/N 470000.14; S/N up to: 1302

TJ100E3S; P/N 470000.29; S/N up to: 1446

TJ100E3B; P/N 470000.34; S/N: 681, 682

**3. REASON:**

The turbine blade failure was reported. The reason of turbine failure was not identified yet, but character of the failure looks like fatigue caused by operation near the blade resonance. The blade resonance could be excited during the engine operation on the minimal IDLE speed.

**4. ACTION:**

**Do the inspection periodically every 25 operating hours or every 30 starts.**

**CAUTION**

**Do not operate the engine if the crack is detected on the turbine blade and contact PBS representative.**

**Operation instructions:**

Do not use minimal engine speed on the ground.

Increase the engine minimal physical speed from 34 000 rpm to 37 000 rpm.

**CAUTION**

The engine thrust increase for approx. 45 N must be expected.

During the flight minimise the engine operation below engine physical speed 37 000 rpm.

Note:

Contact PBS service centre if your application does not indicate the engine physical speed.

**5. WORK PROCEDURE:**

Engine user – do the turbine inspection in accordance to PP-22 Operation and maintenance manual:

TJ100B; P/N 470000.14 PP-22B2 section 6.7.

TJ100E3S; P/N 470000.29 PP-22E3S section 6.8.

TJ100E3B; P/N 470000.34 PP-22E3B section 6.8.

**Do the inspection periodically every 25 operating hours or every 30 starts.**

**6. WORK WILL BE PERFORMED BY:**

Engine user.

**7. EFFECTIVE DATE:**

Date of bulletin issue.

**8. DELIVERY DATE:**

None.

**9. DOCUMENTATION:**

TJ100B;	P/N 470000.14	PP-22B2	section 6.7.
TJ100E3S;	P/N 470000.29	PP-22E3S	section 6.8.
TJ100E3B;	P/N 470000.34	PP-22E3B	section 6.8.

**10. REQUIRED MATERIAL (FOR 1 AIRCRAFT):**

None.

**11. REQUIRED TOOLS AND FIXTURES:**

Boroscope with optical zoom 12x.

**12. MATERIAL WILL BE DELIVERED BY:**

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**13. COST OF MATERIAL WILL BE PAID BY:**

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**14. COST OF IMPLEMENTATION WILL BE PAID BY:**

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**15. ANNEXES:**

None.