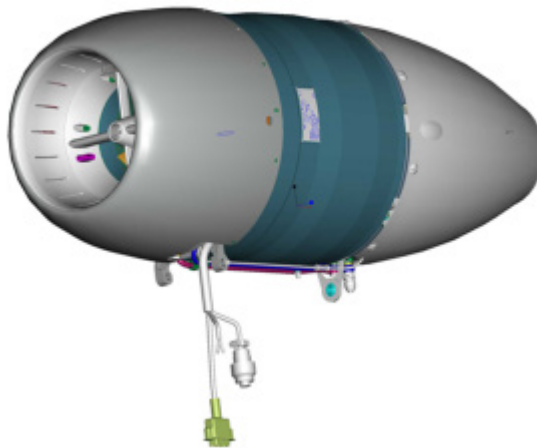




**BULLETIN**  
**No. B24311163**

**TURBOJET ENGINE**  
**TJ100B, TJ100E3S, TJ100E3B**



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

**Content:** Inspection of the turbine blades

**Issued by:** PBS Velká Bíteš, a. s.

**Date of issue:** 25/11/2024


**Bulletin type:** Mandatory

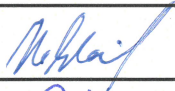


**BULLETIN**

**TURBOJET ENGINE**

**TJ100B, TJ100E3S, TJ100E3B**

**APPROVAL SHEET**

Elaborated by:	Name, Post:	Signature:	Date:
PBS Velká Bíteš a.s.	Tomáš Hubáček Designer (D)		29-11-2024

Agreed by:	Name, Post:	Signature:	Date:
PBS Velká Bíteš a.s.	Libor Neklapil Design Engineer (DE)		29-11-2024
PBS Velká Bíteš a.s.	Miroslav Růžička Head of Design Department (HDD)		29-11-2024
PBS Velká Bíteš a.s.	Roman Kolka Head of Design Organisation (HDO)		29-11-2024
Approved by:	Name, Post:	Signature:	Date:
PBS Velká Bíteš a.s.	Aleš Derfiňák Head of Office of Airworthiness (HOoA)	N/A	

**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 PBS has received reports on three different cases of turbine blade separation. Following an accident PBS issued this Service Bulletin which requires Non-Destructive Testing (NDT) inspection of the turbine blades for crack finding.

The visual characteristics of the blade condition are indicative of fatigue. This fatigue is accelerated by operation of the engine near the blade resonance frequency. The blade resonance could be excited during the engine operation on the minimal IDLE speed 34 000 rpm.

**4. ACTION:**

**All engines affected by this Bulletin must be removed from operation.**

**CAUTION**

**Do not operate the engine. Contact PBS representative.**

Send engine to PBS for NDT inspection of turbine blades and turbine blisk replacement if necessary

The engine minimal physical speed will be increased from 34 000 rpm to 37 000 rpm.

**CAUTION**

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

**5. WORK PROCEDURE:**

Remove the operating fluids (fuel, oil) from the engine.

Remove the engine from the aircraft.

Remove datalogger from the aircraft (if applicable)

Install the plastic covers and plug on the engine.

Insert the engine into a PE bag.

Put the engine in the heavy cardboard shipping box and secure properly.

Install the upper foamy part.

Check all records in the Engine Book, in particular the completeness of engine operation records.

Put the datalogger and Engine Book in the shipping box and close the shipping box cover.

Fix the shipping box cover by adhesive tape and install the draw bands.

Send engine to PBS.

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

Engine user.

**7. EFFECTIVE DATE:**

Date of bulletin issue.

**8. DELIVERY DATE:**

None.

**9. DOCUMENTATION:**

Operation manuals

TJ100B;	P/N 470000.14	PP-22B2 change No1 (30.10.2020).
TJ100E3S;	P/N 470000.29	PP-22E3S change No1 (21.10.2020)
TJ100E3B;	P/N 470000.34	PP-22E3B change No1 (5.2.2020)

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

None.

**11. REQUIRED TOOLS AND FIXTURES:**

Refer to Operation and maintenance manuals.

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

----

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

----

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

The NDT inspection of the turbine and possible turbine blisk replacement will be paid by PBS.  
This special inspection will not extend the service interval to the engine overhaul!

**15. ANNEXES:**

None.