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Subject: ERA25LA115, Materials Laboratory Statement

Contact: Dr. Matthew Fox, NTSB Materials Laboratory, Chief Technical Advisor

The following is a statement of finding from the materials laboratory at the National Transportation Safety Board. The examination was performed in support of an investigation into an accident involving a Luscombe 8A, N77989 that occurred on February 11, 2025 in Hampton New Hampshire.

The aileron control bracket was received for examination as shown in the attached image. The fracture surface had matte gray features on slant planes consistent with ductile overstress fracture. The bracket was bent adjacent to the fracture consistent with fracture associated with out of plane bending loads. On the larger piece, the attachment hole at the curved end of the bracket (right side as viewed in the attached image) was elongated.

