



ZLIN®

## SERVICE LETTER No. L 138-Rev.4

**DATE:** April 3, 2023

**TO:** Sault College Aviation Technology

**MODEL AFFECTED:** Z 242 L aircraft, S/N: 0682, S/N 0685, S/N 0745

**SUBJECT:** Aircraft manufacturer instructions for detected cracks and defects and repair instructions.

**NOTE:**

*Based on Service letter Nr. L134 from 8<sup>th</sup> December 2021 the service life of the aircraft fuselage S/N 0682 is extended up to 21 000 flight hours.*

*Based on Service letter Nr. L114 from 30<sup>th</sup> March 2014 the service life of the aircraft fuselage S/N 0685 is extended up to 18 000 flight hours.*

*Based on Service letter Nr. L119 from 26<sup>th</sup> October 2018 the service life of the aircraft fuselage S/N 0745 is extended up to 18 000 flight hours.*

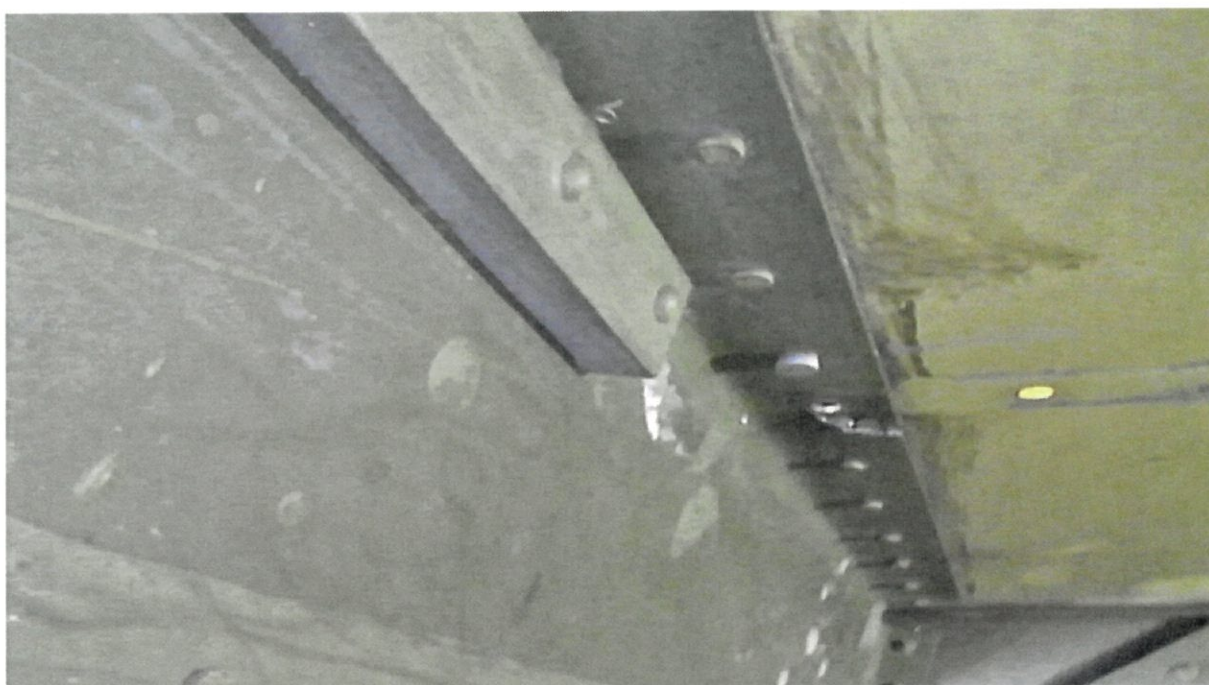
The operator reported the cracks disclosed during the regular servicing of the airplane's structure. The reported findings were considered by the Commission of Airworthiness and Reliability of ZLIN AIRCRAFT a.s. and its conclusion is that the cracks are repairable with no impact on airplane's airworthiness:

The reported cracks were detected as follows:

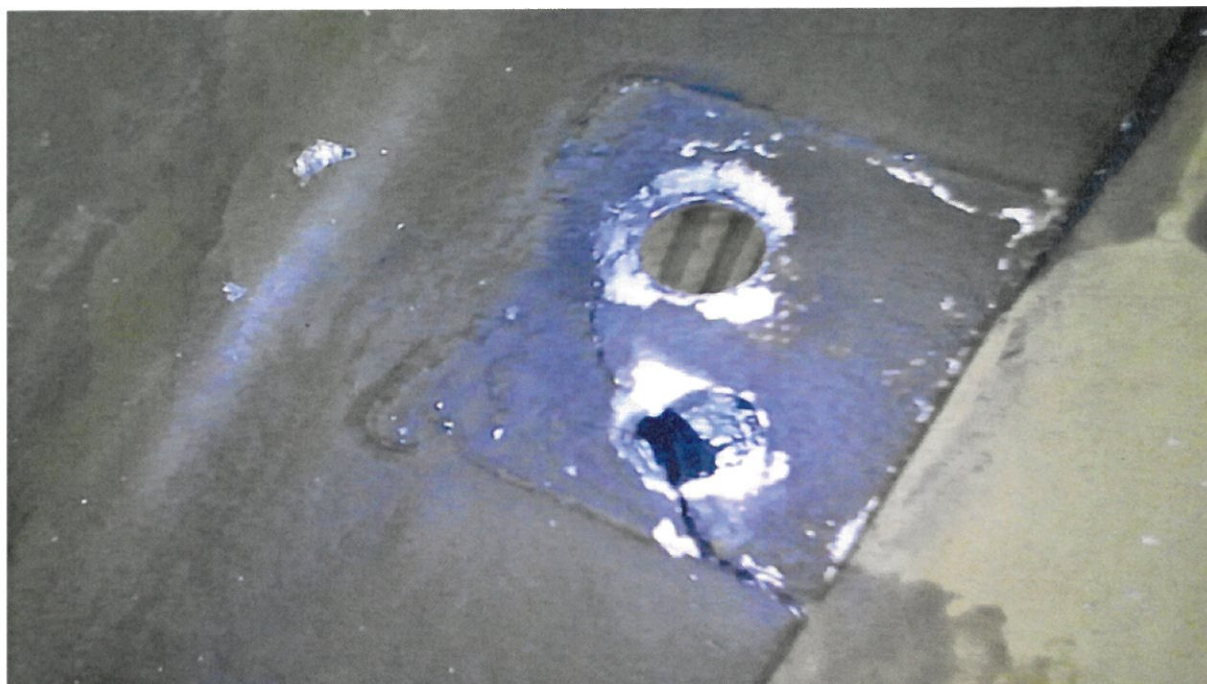
- 1) Aft spar of the left wings (see Fig. 1 and No. 2 and No. 3 and No. 4 and No. 5).



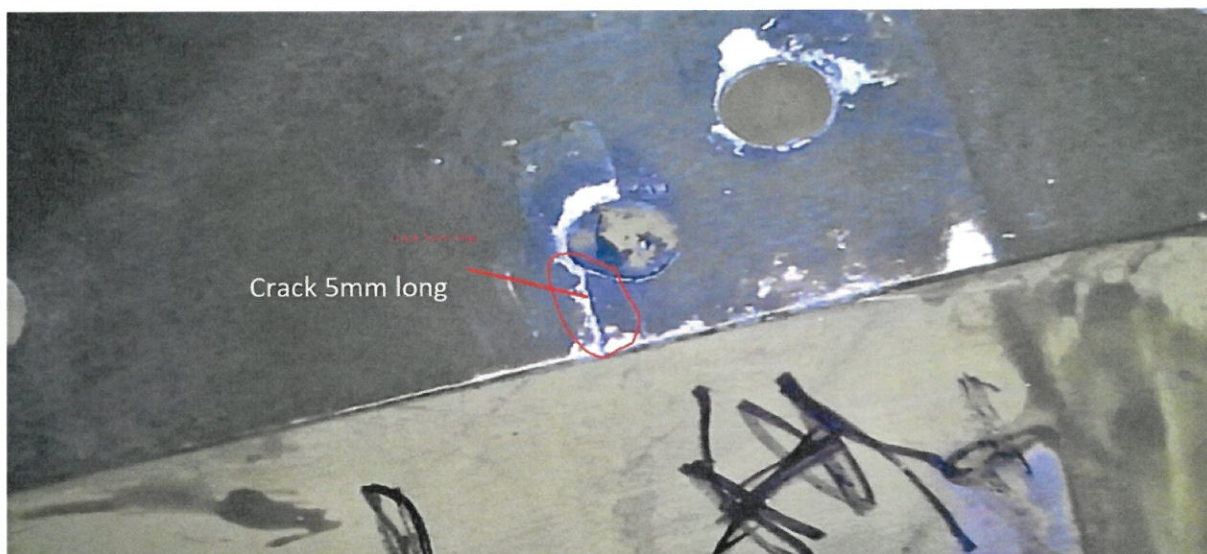
*Fig. No. 1 (S/N 0682)*



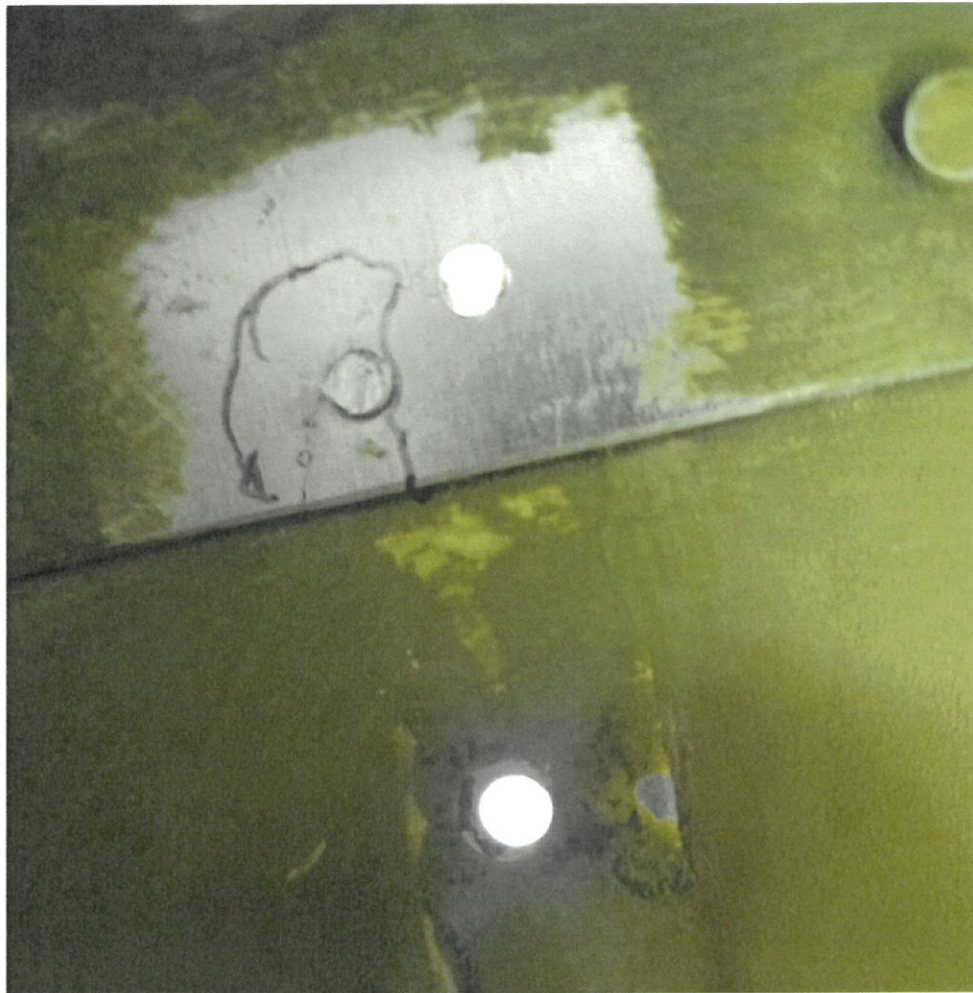
*Fig. No. 2 (S/N 0682)*



*Fig. No. 3 (S/N 0682)*



*Fig. No. 4 (S/N 0685)*



*Fig. No. 5 (S/N 0745)*

**TIME OF COMPLIANCE:** Upon receiving of this letter perform the repairs as described in accordance with operator's schedule repair plan

**PROCEDURES:** For corrective actions recommended by the manufacturer follow the repair procedures recommended by the FAA document AC-43.13-1B, issued on 8 SEP 98 as follows:

- Repair the aft spar cracks as described on pages 4-43 of the above-mentioned document. The cracked rib will be strengthened by the plate in accordance with the sketch provided by the operator's maintenance facility (see Enclosure No. 1)
- The rivets used for reassembly and plate reinforcement will be provided by ZLIN AIRCRAFT. The rivets must be positioned in accordance with the enclosed sketch (Enclosure No. 1) – see annotations made by ZA.
- All existing rivet holes must be re-drilled for new rivet size to assure their proper alignment.



- New holes for rivets (ČSN 02 2302.5, size 2,6) will be drilled in accordance with the sketch provided by the maintenance facility and annotated by the manufacturer.

**RECOMMENDATION:**

The aircraft manufacturer recommends using EMFIMASTIC glue to insure the riveted joint.

**CAUTION:**

PERFORM REGULAR VISUAL CHECKS OF REPAIRED SPOTS AT EVERY 500 FLIGHT HOURS. RECORD THE RESULTS OF CHECKS IN AIRPLANE TECHNICAL DOCUMENTATION.

**CAUTION:**

THE SAULT COLLEGE AVIATION MAINTENANCE FACILITY BEARS A FULL RESPONSIBILITY FOR THE QUALITY OF THE ALL WORK PERFORMED, COMPLIANCE WITH THE APPROVED REPAIR PROCEDURES AND REGULATIONS, USE OF THE PRESCRIBED MATERIAL AND THE AIRCRAFT FINAL RELEASE TO SERVICE ON WHICH THIS SL HAS BEEN APPLIED.

**CAUTION:**

Repair procedure (especially removing rivets from rear strut) defined in this Service letter, can be performer only once. If this situation occurs again, operator must contact the manufacturer.


|   |            |         |        |
|---|------------|---------|--------|
| <b>NECESSARY MATERIAL:</b>                    | Rivet 5DuZ | 3,5x8P  | 10pcs  |
|   | Rivet 5DuK | 2,6x12P | 8pcs   |
|   | Rivet 5DuK | 3x7P    | 10 pcs |
|   | Rivet 5DuZ | 3,5x7P  | 1 pc   |
|   | Rivet 5DuZ | 3,5x8P  | 1pc    |
| will be provided by the airplane manufacturer |            |         |        |

**ENCLOSURES:**

Sketches of the proposed repair made by the maintenance facility and annotated by the airplane manufacturer.



Elaborated by:

  
.....

**Lubomír Januška**

Head of Documentation and Normalization Dept.

Approved by:

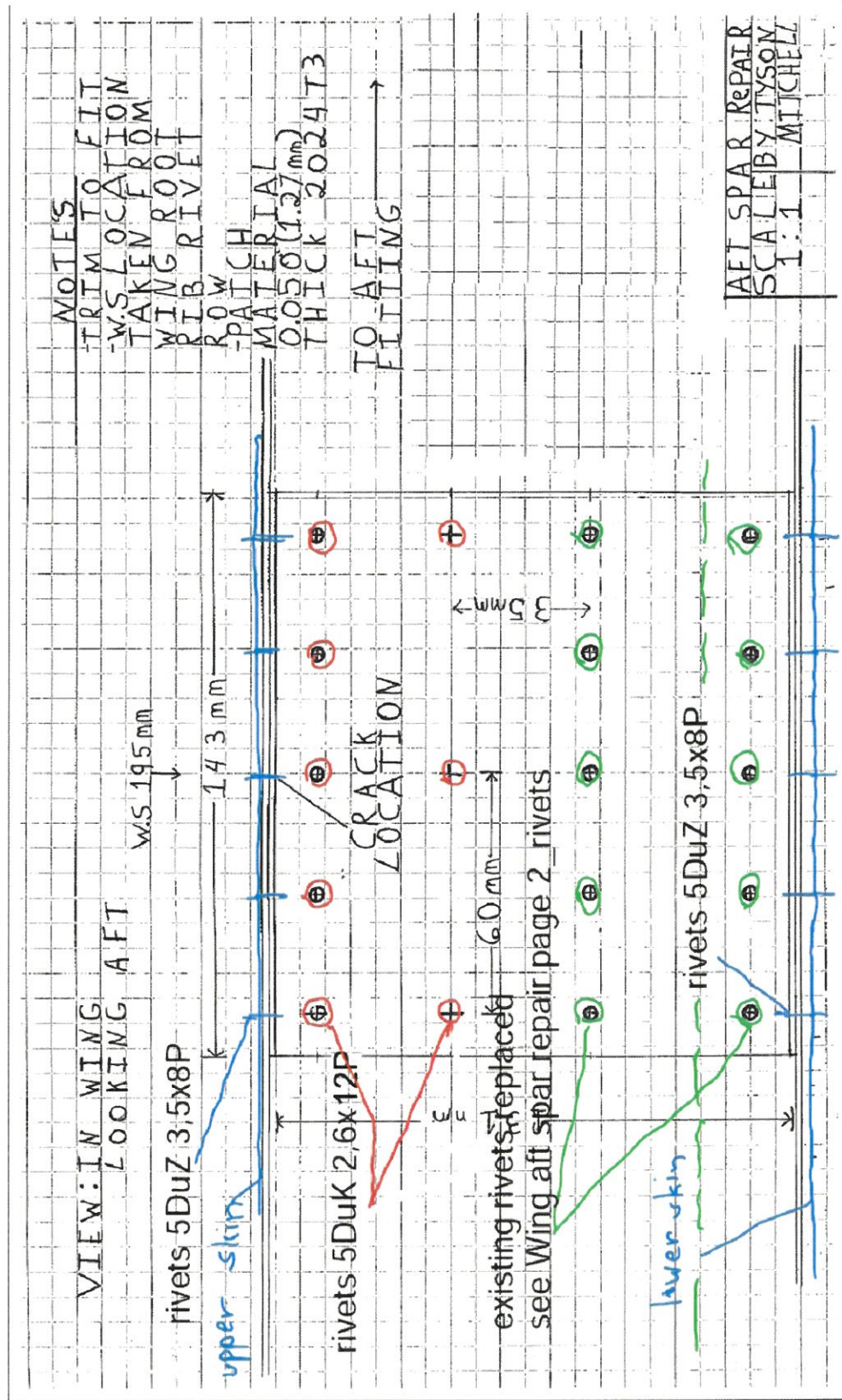
  
.....

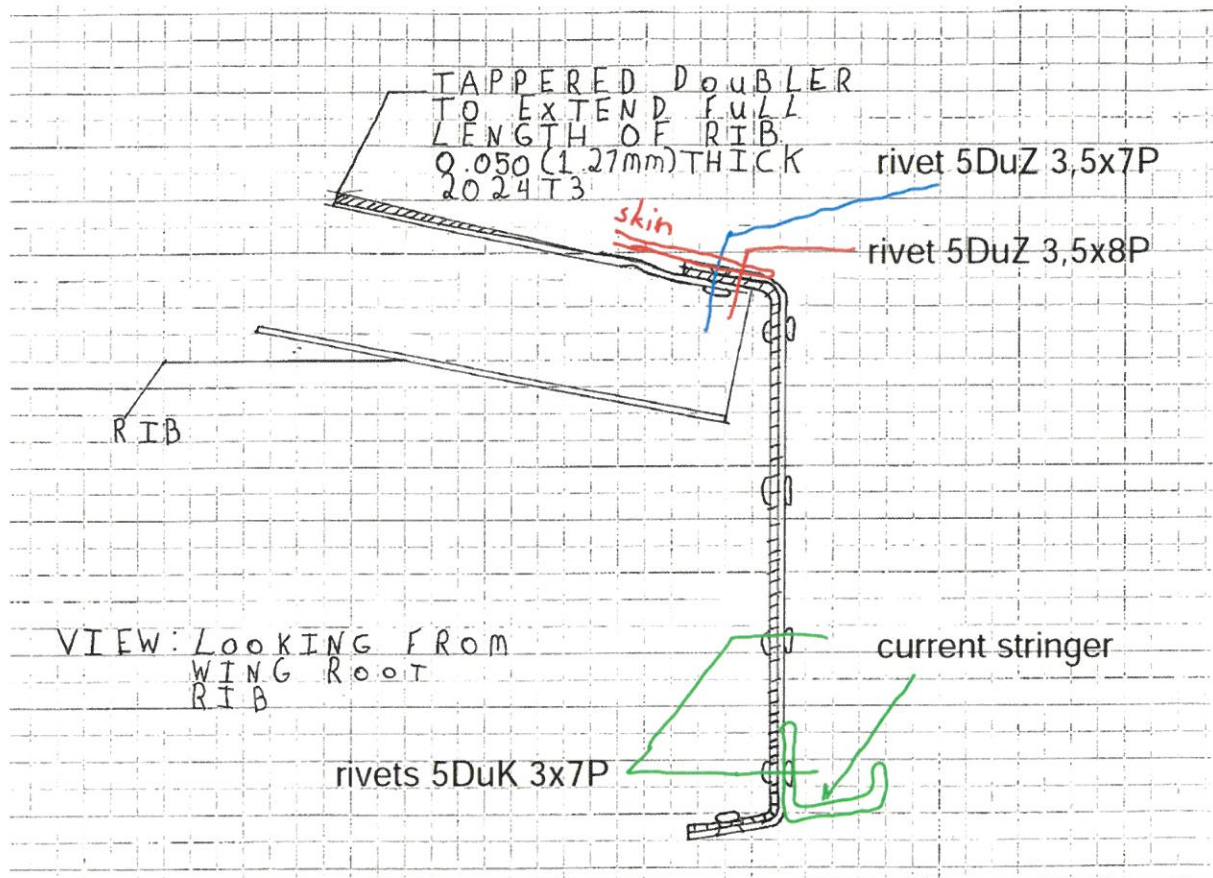
**Ing. Martin Kotačka**

Head of Office of Airworthiness



ENCLOSURE No. 1 of Service Letter L138-Rev.4





**NOTE:** use the rivets provided by Zlin Aircraft