



Sport Aviation Corp Ltd

Problem Report

Report No SAC use only

DESCRIBE PROBLEM: (What, where, when etc.) Float plane ZK- (amphibious Zenair 1200 floats)

Hydraulic line cracked causing loss of fluid & inability to lower and lock undercarriage. Circuit maintaining wheels up position is independent and was unaffected. Standard wheels up landing performed onto grass vector without incident!

Person Reporting: Greg van der Hulst Date/time: 18 104 12021

SUGGESTED FIX: Parker nylon 1/4" hose cracked. Careful inspection revealed crazing of the plastic, likely due UV exposure. Lines were all replaced in aircraft. No other areas of crazing or cracking found. Who is to fix it? (Owner): Owner repaired.

HOW THE PROBLEM WAS FIXED: AS above.

Signature of person responsible: Bradellub SAC1290 Date/time: 18 104 12021 :

ROOT CAUSE OF THE PROBLEM WAS: UV degradation of nylon tubing led to failure in use. Item affected had been in use for approx 14 years. Parker Semi-Rigid Nylon tubing - NR Series #NNR-4-035 ("Parflex").

PREVENTATIVE ACTION REQUIRED TO STOP RECURRENCE: Careful inspection of nylon brake and hydraulic lines with magnifying glass may prevent such a failure. Degradation not eas y seen with naked eye with fluid filled tubing.

SHOULD ANY SYSTEM BE IMPROVED?: As part of a good inspection, these Hydraulic lines should be included.

I would advise that it would be an item included in say the the same time you change all fluid lines re Rotax requirements

The UVdeterioration in these fluid lines are hard to observe, cracks and wear points loose fittings can all contribute to the above incident.

WHAT IMPROVEMENT WAS MADE: Lines were all replaced to prevent recurrence with new tubing.

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Improvement Action taken: Signed: GHL SWAN GHL Swan Date/time: 27 / 04 / 2021 :

Designation: Sport Aviations Technical Officer Circle Status: PENDING or **CLOSED**

Instructions for use: Where any checklist reveals an item not done; or something is unserviceable even temporarily; or any problem requires fixing; a problem Report of that date is to be raised.

Problem Reports are to be filed as PENDING or CLOSED. CLOSED files are grouped according to the similarity of problems. The PENDING file is to be reviewed weekly and, if possible, signed off and removed into the appropriate CLOSED file.