

Grant Robinson

From: Mcconnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent: Thursday, February 02, 2017 10:23 AM
To: Grant Robinson
Subject: FW: S-92 LG Actuator Pins - Cor-Ban 27L ILO CA1000

From: McConnell, David P SIK
Sent: Monday, July 13, 2015 10:33
To: Grant Robinson <Grant_r@tasl.co.th>
Cc: Aaron Scally <Aaron_s@tasl.co.th>
Subject: S-92 LG Actuator Pins - Cor-Ban 27L ILO CA1000

Grant;

Per Aaron's request, following is the CSE response to my FTR requesting to use Cor-Ban 27L on landing gear actuator pins in lieu of CA1000.

Log Number: 76182
FTR Number: 10615T099
FTR Date: Jul 9 2015 5:31AM
Operator: Thai Aviation Services (CHC)
Aircraft S/N: N/A
Aircraft Model: S-92A
Part ID: 2392-2317
Part Serial #: N/A
CSE: IAS
ATA: 32
Ref Docs: 1) AMM Task 32-31-01-900-002
2) AMM Task 32-31-02-900-002
FTR Subject: LG Actuator Attach Pins-Cor-Ban 27L ILO CA1000

Problem Description:

TAS recently changed two landing gear actuators.

In both cases the P/N 2392-2317-series pins were very difficult to remove.

Examination of the removed pins indicated that the common problem of all pins was corrosion of the pin shank.

No thread corrosion was observed.

Reference to AMM Tasks 32-31-01-900-002 and 32-31-02-900-002 for installation of the MLG and NLG actuators respectively show the requirement to apply CA1000 under the head of the pin and to the mating faces of the washers and nut.

Nowhere in the procedures is there a requirement to apply anything to the shank of the pin.

TAS maintainers believe that CA1000 is promoting corrosion of the pin shanks by not providing an effective barrier against moisture ingress in the humid tropical environment found locally, and that the lack of noncuring sealant on the pin shank is aggravating the problem.

TAS report better overall performance of Cor-Ban 27L in other applications as compared to CA1000.

This is to request SA approval for the following:

- 1) Use of Cor-Ban 27L in lieu of CA1000 during the installation of P/N 2392-2317-series MLG and NLG retract actuator pins per respective AMM Tasks.
- 2) Application of Cor-Ban 27L to the pin shank as well as to the surfaces already called out in the AMM Tasks. EoM

Problem Resolution:

Paragraph 3 of the S-92 corrosion control manual chapter 32-00-00 on p202 says to wet install pins, bolts, shanks, etc. with Cor-Ban 27L.

According to Landing Gear Engineering, it is acceptable for the customer to apply Cor-Ban 27L during installation of the actuator pins as requested.

David P. McConnell

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