

Grant Robinson

From: McConnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent: Wednesday, August 02, 2017 2:51 PM
To: Grant Robinson
Subject: FW: 761059 Engine Exhaust Duct Strut Fitting Play

Importance: High

From: McConnell, DAVE P (TH)
Sent: Monday, July 24, 2017 20:40
To: Grant Robinson <Grant_r@tasl.co.th>
Cc: Jay Minor (jay_m@tasl.co.th) <jay_m@tasl.co.th>; Atiporn Chiwcharoen <Atiporn_c@tasl.co.th>; Mrazik, Philip (TH) <philip.mrazik@lmco.com>
Subject: 761059 Engine Exhaust Duct Strut Fitting Play
Importance: High

Grant

Following is the CSE response to my request for evaluation of the play noted on the exhaust duct strut bolted connection on HVC.

Case Number: C0065994
Customer: Thai Aviation Services Limited
Aircraft S/N: 761059
Aircraft Model: S-76D
Aircraft TT: 1,157
ATA: 78
Part Number: 76209-74101-045
Case Subject: Exhaust Duct Lower Fitting-Axial Play

Problem Description:

Reference AMM Task 78-10-02-200-801 – 1500 Hour Inspection Engine Exhaust Supports, Fittings and Struts

SubTask 78-10-02-240-001 Paragraph 1.A. Step (3) gives criteria for checking bearing wear and play in engine exhaust struts and fittings.

The second sentence of Step (3) says “There should be no free play in forward and aft direction, but mild resistance without play is normal.”

TAS reports finding axial (forward and aft direction) play at the two bolted connections of the L/H lower fitting P/N 76209-74101-045.

The outboard bolted connection measured 0.003 in. axial play, and 0.00 in. radial play.

The inboard bolted connection measured less than 0.003 in. axial and 0.00 radial play.

TAS consider this play to be insignificant.

- 1) Please confirm that 0.003 in. axial play at the L/H engine exhaust duct outboard strut as described above is permissible.
- 2) Please clarify what is meant by the statement in Step (3) that concludes “...but mild resistance without

play is normal." Resistance to what?
EoM

This email notification is provided as the case has been reviewed and does not contain technical data in the issue description.

Problem Resolution:

Q1) Please confirm that 0.003 in. axial play at the L/H engine exhaust duct outboard strut as described above is permissible.

A1) Propulsion engineering agrees that this is permissible.

Q2) Please clarify what is meant by the statement in Step (3) that concludes "...but mild resistance without play is normal." Resistance to what?

A2) Struts are attached to sheet metal ducts. Some "bending, flexing" could occur during "pulling/loading" of struts. This is what is meant by resistance.

This email notification is provided as the case has been reviewed and does not contain technical data in the resolution.

David P. McConnell

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