

Grant Robinson

From: McConnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent: Saturday, December 10, 2016 9:47 AM
To: Grant Robinson
Subject: Fwd: Case Resolved: C0048119 - David McConnell - 2P Vibration Exceedances-Request For Troubleshooting Assistance

Grant

As per below, NVH suspects over lubed or dirty bifilar. Sounds similar to the recent problems with the S-92s.

Dave

Sent from my iPhone

Begin forwarded message:

From: CSS Portal Account <crmsa@sikorsky.com<mailto:crmsa@sikorsky.com>>
Date: December 10, 2016 at 02:49:24 GMT+7
To: David McConnell <dave.p.mcconnell@lmco.com<mailto:dave.p.mcconnell@lmco.com>>
Cc: DI Sik Wcs Commercial Reps <wcscommercialreps.dl-sik@exch.ems.lmco.com<mailto:wcscommercialreps.dl-sik@exch.ems.lmco.com>>, "dl-SIK, FTR Distribution CSS" <ftr.distribution.css.dl-sik@exch.ems.lmco.com<mailto:ftr.distribution.css.dl-sik@exch.ems.lmco.com>>
Subject: Case Resolved: C0048119 - David McConnell - 2P Vibration Exceedances-Request For Troubleshooting Assistance

Case Number: C0048119

Customer: Thai Aviation Services Limited

Aircraft S/N: 761059

Aircraft Model: S-76D

Aircraft TT: 181

Sub-System: 10 - Rotors

Part Number: 76150-09300-041

Entering FSR: David McConnell

Submitted On: 12/9/2016 8:59 AM

Severity: Urgent

Contact Name: Grant Robinson

Case Owner: Dave Persico

Case Subject: 2P Vibration Exceedances-Request For Troubleshooting Assistance

Problem Resolution:

Sikorsky NVH Engineering recommends disassembly of the 3P bifilar so that all hardware (cycloidal bushings, pins, tapered washers) can be completely and thoroughly cleaned of any excess lubricant and any other debris present. Bifilar should be reassembled and all hardware should have a very thin film of lubricant applied. The ideal installation will just give the metal surfaces a sheen when applied correctly. Best practices would have the engineer apply lubrication to the hardware and then wipe the excess off with cheesecloth to result in the ideal thin film application. Please keep in mind that the purpose of the lubriplate is only for its anti-corrosive properties.

Please provide pictures of what the bifilar currently looks like (focusing on pins, cycloidal bushings and tapered washers), as typically maintained, prior to performing any of the recommendations above. Please provide pictures of the final installation as well to document the changes.

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