

## **Grant Robinson**

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**From:** McConnell, DAVE P <dave.p.mcconnell@lmco.com>  
**Sent:** Friday, April 06, 2018 12:00 AM  
**To:** Grant Robinson  
**Cc:** Mrazik, Philip; Atiporn Chiwcharoen; Colin Inglis; andy@helivibe.com; Jay Minor  
**Subject:** 761059 Swashplate Bearing Energy  
  
**Importance:** High

Grant

Following is the response from CSE regarding increased swashplate bearing energy levels on HVC.

Phil – please note that CSE is calling for the replacement of the P/N SB 1562-101 duplex bearing, but the NHA P/N 76104-78500-041 swashplate assembly may in fact be the logical spare. If the SB1562-101 duplex bearing is more readily procurable other detail parts will have to be ordered as well to support its replacement.

Case Number: C0091752  
Customer: Thai Aviation Services Limited  
Aircraft S/N: 761059  
Aircraft Model: S-76D  
Aircraft TT: 2,133  
ATA: 62  
Part Number: 76104-78500-041  
Case Subject: Swashplate-Rising HUMS HI Values-Multiple Events

### **Problem Description:**

Reference  
1) C0087614  
2) Attached HUMS screen shot

TAS HUMS department has repeatedly flagged rising swashplate bearing energy levels on A/C S/N 761059.

Maintenance and re-greasing have been performed per the response to Case C0087614.

Reference the attached HUMS screen shot covering the period 20 JAN to 04 APR 2018.

The rising levels respond briefly to re-greasing but then start to climb again. Re-greasing was conducted 05 FEB, 12 MAR and 01 APR. A grease purge was conducted 14 FEB and produced the greatest drop in values and produced the relatively most durable response.

This repeated rise/fall signature is not found on any other swashplate in the TAS fleet.

A history of recent maintenance and troubleshooting is listed in Case C0087614.

RDFs dated 01 APR and later will reflect the most recent rise.

TAS is concerned that continual re-greasing is masking an unidentified problem. They have grounded the A/C pending Sikorsky engineering evaluation.

A/C S/N 761059 A/C TT 2132.6

Swashplate  
P/N 76104-78500-041  
S/N A1735-00056  
Component TSN 2132.5

TAS request SA engineering evaluation and recommendations on an AOG basis. EOM

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

**Problem Resolution:**

S76 Rotors Engineering recommends removal and replacement of the swashplate duplex bearing set.

**David P. McConnell**

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