

Grant Robinson

From: Carracino, Steve <steve.carracino@lmco.com>
Sent: Saturday, April 15, 2017 10:49 AM
To: Russell Squires
Cc: McConnell, DAVE P; Grant Robinson
Subject: DC Start/Gen Spline Lubrication-Request For Clarification

Hi Russ,

Below is a response from our engineers regarding DC Start/Gen Spline Lubrication-Request For Clarification. Please advise if this is now a closed action for Sikorsky.

Sent: Friday, April 14, 2017 4:09 PM

To: McConnell, DAVE P (TH)

Cc: GR-SIK, WCS_CUST_SERVICE_ENG (RESOURCE)

Subject: RE: Interim Response - Scheduled Case C0056899 - Thai Aviation Services - S-76D s/n 761060 -- DC Start/Gen Spline Lubrication-Request For Clarification

Dave,

After receiving additional information from PWC...

Correction to my last message:

PWC has informed us that... "The Starter gearshaft is equipped with a spline adapter made of Vespel, this polymer material requires no lubrication.", and further stated that a note on their installation drawing emphasizes that... 'spline interface contains a polyimide insert. Lubrication is prohibited.' This matches the drawing note (#13) from the SA Engine Install drawing 76300-77101, that there is to be 'No Grease or oil allowed on generator shaft spline.'

As such, we will:

- 1) Submit a SoundOff to have the Starter/Gen installation instructions in the AMM add a (more emphatic) note stating that the engine generator spline interface contains a polyimide insert, and that no grease or oil is allowed on the generator shaft spline during installation.
- 2) Make a suggestion to Safran that their general instructions on generator installation be modified to state: 'The drive shaft must have lubricating grease on the drive spline according to MIL-PRF-81322, unless instructed otherwise by the engine/aircraft manufacturer.' Not sure if/when Safran will add that caveat, ...all we can do is ask, ...and make sure that our pub includes specific instructions.

Please contact us if you have any questions or need additional information.

Please 'Reply All' on any response.

-- Mac

Robert McFarland

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