

## McKenny Van

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**Subject:** FW: Brushes replaced? [EC130 T2, 8070, N11VQ, Blue Hawaiian, Kauai, HI ]

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**From:** Troy Atkinson [REDACTED]  
**Sent:** Monday, February 15, 2016 1:41 PM  
**To:** Buttner, Seth; McKenny Van  
**Subject:** RE: Brushes replaced? [EC130 T2, 8070, N11VQ, Blue Hawaiian, Kauai, HI ]

Hi Seth,

Sorry for the delay. I think I brought a bug back from TX, thought I could kick it but, got really sick late last week. The CMM brush check is based on a 600HR check interval and if the brushes are in the "green" they do not need checked for another 600hrs..

In the BHH program/AAIP, (as per the AAIP 150HR form), we inspect the starter/generators at a 150 HR interval, the starter gens are removed during the 150HR inspection, (for access) and the brushes checked using the brush gauge PN P0033158, as well as performing a general condition Insp/check of the starter generator. I believe if there was excessive grease or oil between the ST/Gen mounting/engine mounting pad maintenance would have noted this as a discrepancy and looked at the magnetic seal and or the starter gen. shaft o-ring, etc. if either looked defective they would have written them up and replaced them.

I do not see that the brushes were replaced on this starter generator.

The guys also generally feel the starter/gen drive shaft for play, as we have found other starter generators with play in the shaft and removed them for this type of defect.

Best regards,



**W. Troy Atkinson**  
*Director of Maintenance*  
*Blue Hawaiian Helicopters*

[REDACTED]  
[REDACTED]  
[REDACTED]

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**From:** Buttner, Seth [REDACTED]  
**Sent:** Friday, February 12, 2016 12:49 PM  
**To:** McKenny Van; Troy Atkinson  
**Subject:** Brushes replaced? [EC130 T2, 8070, N11VQ, Blue Hawaiian, Kauai, HI ]

Van and Troy,

Regarding Blue Hawaiian's AAIP, Section 10.20 (attached), where the starter generator's brushes were Checked Off to be in the Yellow. I was looking over the Component Maintenance Manual for the starter generator (attached PDF) and I noticed that it says (on page 61), if *"One or several brushes checked are in the yellow area, all brushes have to be replaced."* I'm not sure if I missed something, but wouldn't those have been replaced? If so, it would have also had to of been removed, and I would bet if there was excessive grease or oily substance then it would have been noted then also. - None the less, just curious if I missed something about the brushes not being replaced? Was the Thales "Brush Gauge" used; (p/n: P0033158 noted on page 62 of the CMM)?

Best regards, Seth

**Seth D. Buttner**  
Manager, Accident Investigations

**Airbus Helicopters, Inc.**  
2701 N. Forum Drive  
Grand Prairie, TX 75052



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