## **Huhn Michael**

From: Boggs, Daniel

**Sent:** Friday, May 08, 2015 4:55 AM

To: Huhn Michael Cc: Yoos, Paul

**Subject:** RE: Propeller /Blades for airplane? (N999PK, WPr13FA244)

Attachments: P1000563.JPG; P1000593.JPG

## Michael,

Now that I am home, I looked at my pictures again to make sure, Hartzell Propeller model numbers like others, uses a base number and then uses additional letters to identify mods or specific features about the blade or hub. you can see from the pictures how the base number is etched in and the -1RF is punched in, this is very common depending on what the customer wants.

I do not usually include the additional letters in my reports but see how that would bring up more questions so from now on I will make sure it has all letters and numbers accounted for. You can see by the pictures I have from the teardown, the full model number of the hub and blades that match the TCDS.

Sorry about the confusion on this. Any other questions let me know.

Dan Boggs
Hartzell Propeller Inc.
Air Safety Investigation Manager
Office:

From: Huhn Michael [mailto:

Sent: Thursday, May 07, 2015 8:36 PM

**To:** Boggs, Daniel **Cc:** Yoos, Paul

Subject: Propeller /Blades for airplane? (N999PK, WPr13FA244)

## Dan/Paul

E-mail:

This may be nothing but there are some slight mismatches between what prop & blades were reportedly on the airplane and what were approved/specified by the TCDS. But I need to reconcile them please

According to Dans report the prop & blades were: PHC-C3YF-1R with 8468-6 blades

According to the TCDS, the following two prop/blade assys were eligible/approved on the A36

- Hartzell constant speed 3-bladed propeller installation (V35B, F33A, A36)
  - (a) Hartzell PHC-C3YF-1RF/F8468A-6R installed per Beech Dwg. 36-960001 and Hartzell Flight Manual dated February 26, 1980, or later (STC SA785CE). Required equipment: Items 16(b) and 11(e) or (g) and 403(bh)

    (Model V35B, F33A)

    (Model A36)
- Hartzell constant speed 3-bladed propeller installation (Model A36, G36)
  - (a) Hartzell PHC-C3YF-1RF/F8468A(K)-6R installed per Hartzell drawing D-6971. (STC SA00719LA).

Pitch Setting at 30 inch station: High: 36.0 ± 1.0 degrees

- Low: 13.0 ± 0,2 degrees
  (b) Woodward D210760 or McCauley C290D3-X/T23 governor
- (c) Hartzell A-2995-2(P) spinner and A-2476-7 spinner mounting kit
- (d) Pilot's Operating Handbook and FAA Approved Airplane Flight Manual Supplement HPG 36-2.
- (e) Weight and balance-Without propeller deice system 80 lbs. (-9)
  With propeller deice system 82 lbs. (-9)

Note that the Hartzell report hub designator has no "F" after the "-1R" while both TCDS options do Also note that the Hartzell report blade designator has no "F" before the "8468" designator, while both TCDS options do

Also note that the Hartzell report blade designator only a "-6" after the "8468" designator, while the TCDS options have either ""A-6R" or ""A(K)-6R"

Michael Huhn
Air Safety Investigator
NTSB Western Pacific Region

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