NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety

Western Pacific Region

August 23, 2018

PROPELLER EXAMINATION

WPR17FA066

(2 Pages)

WPR17FA066

Riverside, California

February 27, 2017

1641 PST

Cessna T310Q – N1270P

EXAMINATION PARTICIPANTS

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PROPELLER MODEL AND SERIAL NUMBERS

Left Engine

Propeller Model No.: 3AF32C87-N1R/S-82NC-5.5

Propeller Serial No.: 804717

Blade 1 Serial No.: F15282YS

Blade 2 Serial No.: F43916YS

Blade 3 Serial No.: F64573YS

Right Engine

Propeller Model No.: 3AF332C87-NR/S-82NB-6

Propeller Serial No.: 757839

Blade 1 Serial No.: F11513YS

Blade 2 Serial No.: F11530YS

Blade 3 Serial No.: F11534YS

PROPELLER BLADES

Both the LH and RH propeller hub socket plates displayed witness marks from contact with blade counterweight hardware during the accident sequence. The position of all these marks indicates an approximate propeller blade angle of low pitch position at impact.

The RH propeller was found with a sheared latch screw arrowhead, consistent with a piston near the low pitch stop at impact. The LH propeller showed a dent in the cylinder proximal to the feather end and the piston assembly was found outside the dented region near the low pitch stop position.

Both the LH and RH propeller blades exhibited bending, twisting pain scuffing, leading edge impact marks consistent with a mid-level rotational energy absorption.