

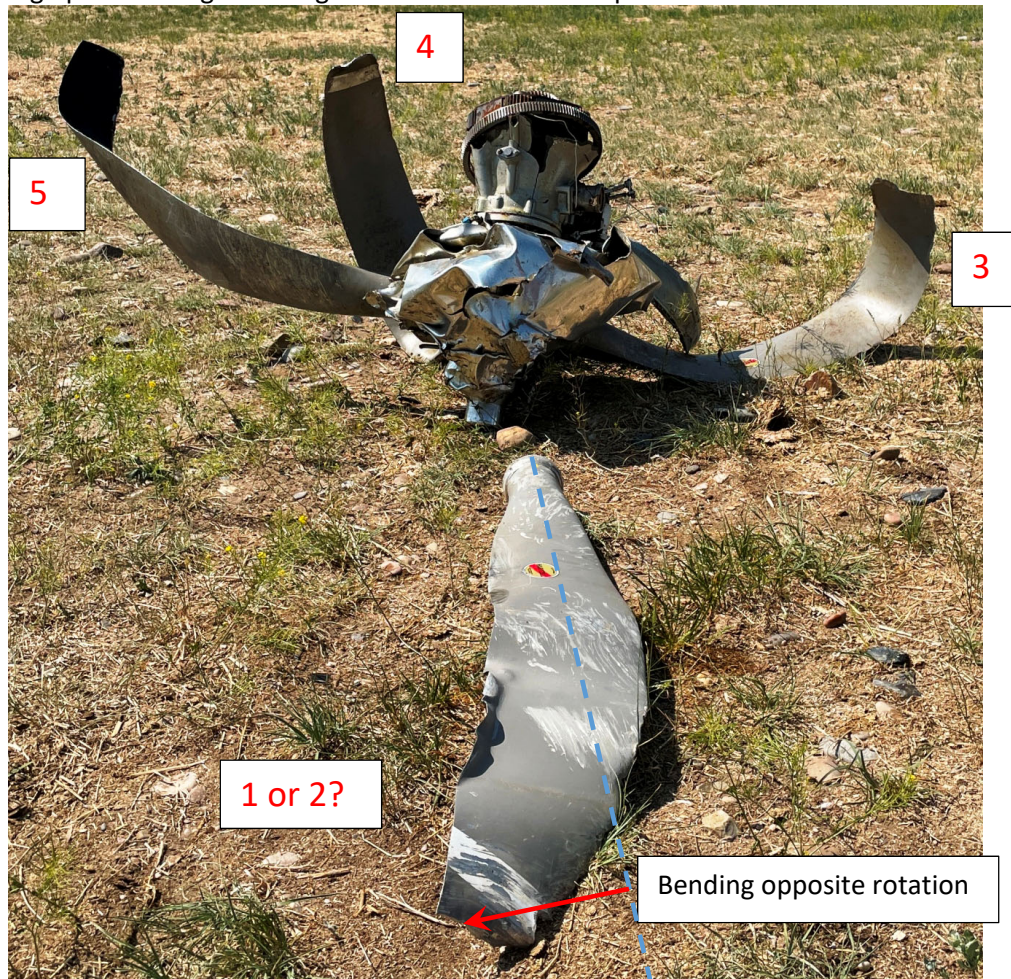
Prop Model: HC-B5MA-3D/M11691NS

S/N: HBA1961

DOM: 1/4/2013

Installation Data Sheet No.: 1789

The propeller impact separated from the engine with a portion of the engine RGB still attached. Two of the five blades impact-separated from their retention clamps; one of those two blades was recovered. The spinner dome was crushed and formed around the propeller assembly. The propeller piston impact-separated. All four blades recovered exhibited tip fractures and chordwise/rotational scoring. Two blades were bent forward in the thrust direction with chordwise/rotational scoring on the face side. One blade was bent in the aft direction with chordwise/rotational scoring on the camber side. The separated blade had chordwise/rotational scoring and remarkable bending opposite rotation in the major axis. These impact signatures indicate rotation at high RPM, high power and generating thrust at the time of impact.



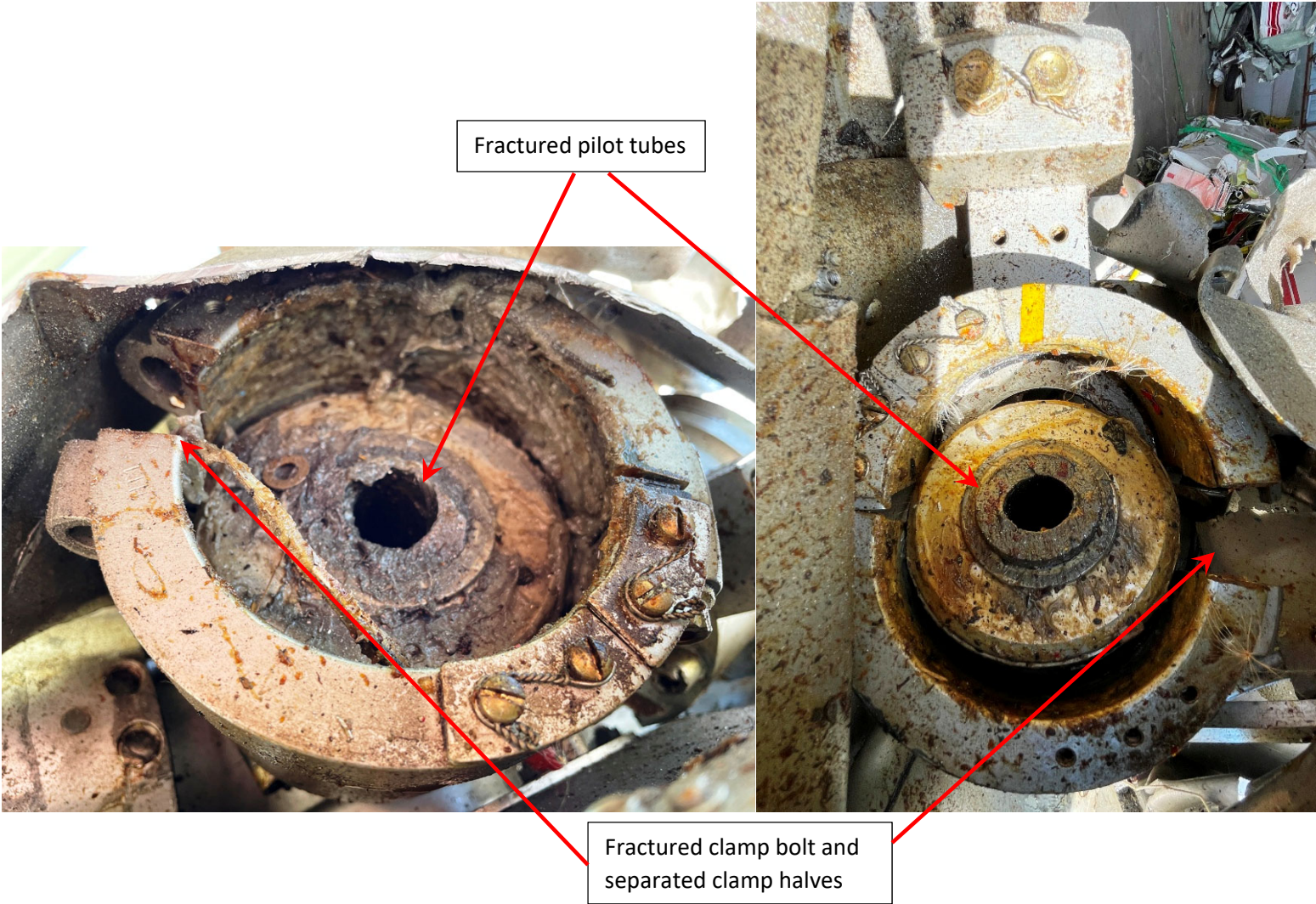
Blade #1 or #2?



Trailing edge wave buckling from
bending opposite rotation in the
major axis

Tip fracture

Blade #1 and #2 fractured Clamps and Pilot Tubes



Blade #3



Blade #4



Tip fracture

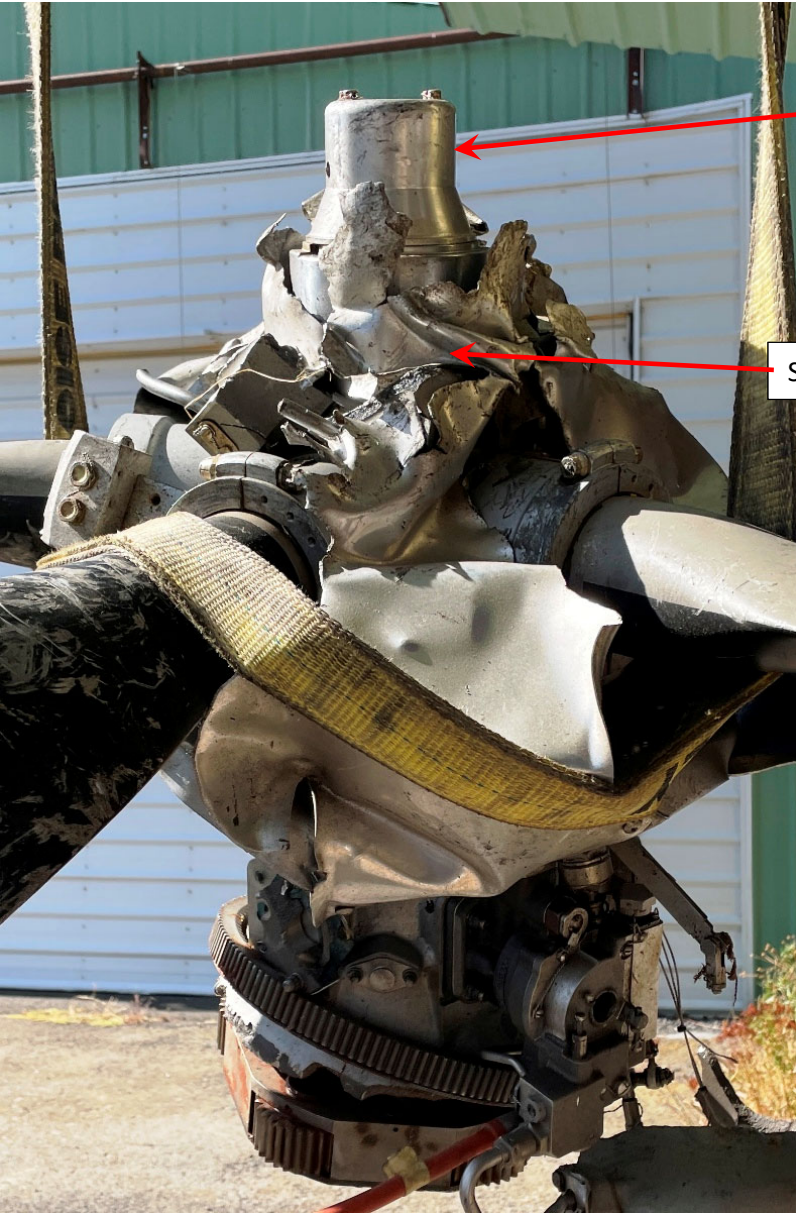
Leading edge gouges and chunking

Chordwise/rotational scoring on the face side, compound bend and twist forward and towards high pitch.



Blade #5





Missing piston an forward end of pitch change rod

Spinner dome crushed and formed around assembly