

**PROPELLERS: McCauley D3A32C406-C, Broken Bearing Race, ATA 6111**

(This report references a Beechcraft A36 aircraft.)

"The owner noticed a few specs of oil on the nose cowl," writes this mechanic. "The propeller was removed to replace the Crankshaft O-ring, but during removal (I) discovered the oil seepage was actually coming from a blade. The seepage was considered minor and the propeller operation appeared normal. However, the decision was made to have the propeller sent to a propeller shop and checked out. (The repair shop) recommended an overhaul due to the calendar time on the prop.

"During disassembly, the propeller shop discovered on blade was frozen. Further inspection found the bearing race broken, with approximately one inch (of the race) missing. Both the blade and the hub had a sizable gouge. Also, 95 of the ball bearings measured the proper size of 15/32 inches, but one bearing measured 16/32 inches.

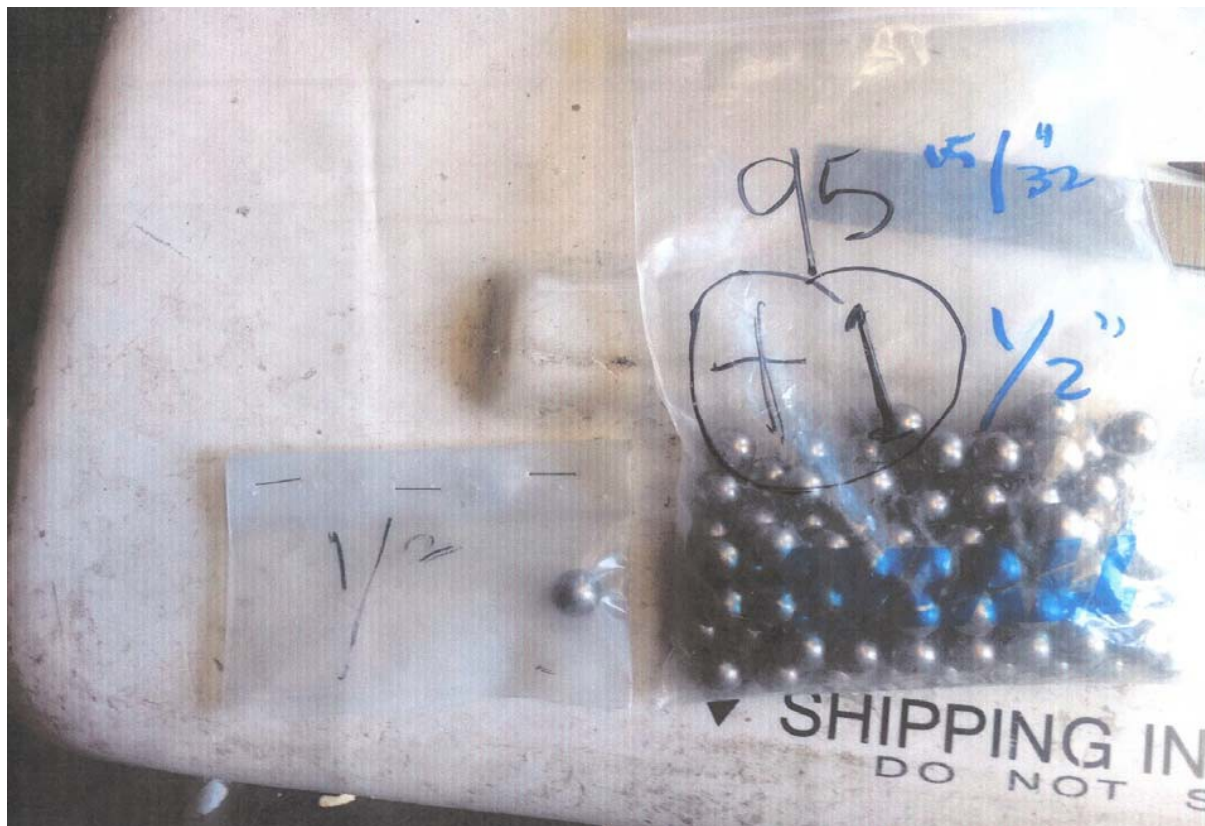
"The blade and hub were not repairable. It appears the oversized bearing caused the damage. Complete failure of the propeller was imminent."



**PROPELLERS: McCauley D3A32C406-C, Broken Bearing Race, ATA 6111**



**PROPELLERS: McCauley D3A32C406-C, Broken Bearing Race, ATA 6111**



**PROPELLERS: McCauley D3A32C406-C, Broken Bearing Race, ATA 6111**



Part Total Time: 170.47 Hours