

Inspectors statement for N80461:

Aircraft: Champion 7EC S/N 7EC743

Engine: TCM C-90-12F

Date of accident (Waunakee, WI) 06/21/2023 1830Z Loss of power reported

Date of aircraft/ engine inspection: 07/06/2023

Aircraft inspected in hanger at Waunakee, WI (6P3)

Aircraft tach time: 4837.50 (Note: annual inspection completed that day @ 4837.40)

Airframe findings:

- Right wingtip fabric repair found with tape over fabric.
- Engine fuel primer found unlocked, no ability to lock and worn. No ability to prime fuel to engine. Primer removed and sent to NTSB for evaluation.
- Engine induction air filter (Brackett element part number BA-4108) found old and reused during recent inspection.
- Fuel noted at fuel strainer/ gasculator on firewall. Small particulates noted in fuel.

Engine findings:

- Engine rocker box covers removed. Engine was able to rotate with continuity front to back. Rocker arm/ valve travel appeared normal during rotation.
- #4 cylinder top spark plug pulled out of cylinder on impact. All spark plugs somewhat carbon fouled. Not cleaned at inspection. Gaskets reused.
- #4 cylinder "thumb" compression lower than the other 3 cylinders. Tested by and confirmed by both inspectors.
- Ignition spark tested on both magnetos. Spark indicated on all 8 ignition leads when tested.
- Engine oil was not changed and inspection. Oil screen not pulled on sight.
- Engine carburetor not pulled and inspected. Fuel was present at the bowl drain when plug was pulled.

Peter T. Hupfer

ASI/ PMI G/A Airworthiness

Milwaukee Flight Standards District Office GL-13