



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Western Pacific Region

May 3, 2018

ENGINE EXAMINATION

WPR18LA042

A. ACCIDENT

Location: Everett, Washington
Date: December 3, 2017
Aircraft: Cessna 152
N714TD, Serial #: 15279413
NTSB IIC: Albert Nixon

B. EXAMINATION PARTICIPANTS:

Albert Nixon
Senior Aviation Accident Investigator
National Transportation Safety Board
Federal Way, WA 98003

Jack Vanover
Aviation Accident Investigator
National Transportation Safety Board
Federal Way, WA 98003

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Aviation Safety Inspector
Federal Aviation Administration
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C. SUMMARY

Examination of the recovered engines were conducted on May 3, 2018, at the facilities of Avtech Services LLC in Auburn Municipal Airport (S50), Auburn, Washington. No evidence of preimpact mechanical failure was noted during the examination of the recovered engine.

D. DETAILS OF THE INVESTIGATION

1.0 Engine Examination

The engine was observed to be relatively intact with no impact damage noted. The top spark plugs were removed and when examined displayed a worn-normal wear condition when compared to the Champion Sparkplug Check a Plug chart. The crankshaft was able to be rotated by the propeller and rotational continuity was established throughout the engine and valve train. Spark was observed on all the ignition leads during rotation. A borescope inspection of the cylinders revealed evidence of normal operational conditions.

The engine was determined to be able to be safety run. An alternate propeller and fuel source was secured to the engine. During the first few engine start attempts, the engine sputtered. Thus, the carburetor was replaced with another similar carburetor. Initially, the same hesitation and sputtering occurred, however, shortly thereafter the engine started and ran smoothly through various power settings. The original carburetor was secured for future examination.

Submitted by: Albert Nixon