



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Western Pacific Region
January 6, 2016

AIRFRAME AND ENGINE EXAM REPORT

WPR16FA046

This document contains 11 embedded photos.

A. ACCIDENT

Location: Alpine, Wyoming
Date: January 4, 2016
Aircraft: Aerostar SA YAK-52, Registration Number: N912EB, Serial #: 832912
NTSB IIC: Howard Plagens

B. EXAMINATION PARTICIPANTS:

Howard Plagens
Senior Air Safety Investigator
National Transportation Safety Board
Federal Way, WA

Matthew Green
Aviation Safety Inspector
Federal Aviation Administration
Salt Lake City, UT

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

C. SUMMARY

Examination of the recovered airframe and engine was conducted on January 7, 2016, at a hangar at Alpine, Wyoming. No evidence of preimpact mechanical malfunction was noted during the examination of the recovered airframe and engine.

D. DETAILS OF THE INVESTIGATION

1.0 Airframe Examination

The airframe was highly fragmented, but all major components and flight control surfaces were identified. All fracture surfaces were angular and jagged.



Figure 1. Left Side of Wreckage



Figure 2. Inverted Left Wing



Figure 3. Right Wing Root



Figure 4. Top of Separated Right Wing



Figure 5. Push-pull Tubes Right Wing



Figure 6. Right Side of Empennage



Figure 7. Left Side of the Empennage

2.0 Engine Examination



Figure 8. Front of Engine

The spark plugs were clean with no mechanical deformation of the electrodes. The spark plug electrodes were gray, which corresponded to normal operation according to the Champion Aviation Check-A-Plug AV-27 Chart.



Figure 9. Spark Plugs

3.0 Propeller Examination

All of the propeller blades shattered and fragmented.



Figure 10. Propeller Hub



Figure 11. Propeller Blade Fragments