



Aviation Investigation Final Report

Location: WINDSOR, Virginia Accident Number: BF088LA069

Date & Time: July 24, 1988, 18:15 Local **Registration:** N31253

Aircraft: BELLANCA 7GCAA Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation

Analysis

WHILE ON LONG FINAL AFTER A GLIDER TOW FLIGHT THE ENG LOST POWER. A FORCED LANDING WAS MADE IN AN OPEN FIELD AND WHEN THE PLT APPLIED BRAKES, THE ACFT NOSED OVER. POST ACCIDENT EXAM OF THE ACFT REVEALED 1 GALLON OF FUEL REMAINED. THE PLT REPORTED THAT HE INITIATED THE FLT WITH 3 GALLONS OF FUEL ON BOARD. THE ACFT OPERATOR STATED IT WAS STANDARD PROCEDURE FOR THE TOW ACFT TO TAKEOFF WITH THE MINIMUM AMOUNT OF FUEL ON BOARD TO COMPLETE THE FLIGHT.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL Phase of Operation: APPROACH - VFR PATTERN - FINAL APPROACH

Findings

- 1. (C) PREFLIGHT PLANNING/PREPARATION INADEQUATE PILOT IN COMMAND
- 2. (C) FUEL SUPPLY INADEQUATE PILOT IN COMMAND
- 3. (C) FLUID, FUEL EXHAUSTION

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: NOSE OVER

Phase of Operation: LANDING - ROLL

Findings
4. (F) TERRAIN CONDITION - SOFT

Page 2 of 5 BF088LA069

Factual Information

Pilot Information

0 110 1	O LANCE		00.14
Certificate:	Commercial; Military	Age:	28,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	Glider	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Glider	Toxicology Performed:	No
Medical Certification:	Class 2 Expired	Last FAA Medical Exam:	May 1, 1986
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	1900 hours (Total, all aircraft), 170 hours (Total, this make and model), 1810 hours (Pilot In Command, all aircraft), 82 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELLANCA	Registration:	N31253
Model/Series:	7GCAA 7GCAA	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	25072
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	December 9, 1987 Annual	Certified Max Gross Wt.:	1650 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	2664 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	O-320-A2B
Registered Owner:	TIDWATER SOARING SOCIETY	Rated Power:	150 Horsepower
Operator:	TIDEWATER SOARING SOCIETY	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Page 3 of 5 BF088LA069

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	ORF ,27 ft msl	Distance from Accident Site:	23 Nautical Miles
Observation Time:	17:50 Local	Direction from Accident Site:	80°
Lowest Cloud Condition:	Scattered / 3500 ft AGL	Visibility	6 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	29°C / 21°C
Precipitation and Obscuration:	N/A - None - Haze		
Departure Point:	WINDSOR , VA (3VA8)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	18:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	GARNER 3VA8	Runway Surface Type:	Grass/turf
Airport Elevation:		Runway Surface Condition:	Dry
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	36.799251,-76.730133(est)

Page 4 of 5 BF088LA069

Administrative Information

Investigator In Charge (IIC):	Kleckner, Pamela	
Additional Participating Persons:	LEO BOHNKE; RICHMOND , VA	
Original Publish Date:	June 7, 1989	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=11426	

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The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

Page 5 of 5 BF088LA069