



# Aviation Investigation Final Report

<b>Location:</b>	HOLYOKE, Massachusetts	<b>Accident Number:</b>	NYC86FA234
<b>Date &amp; Time:</b>	September 11, 1986, 14:06 Local	<b>Registration:</b>	N8316Q
<b>Aircraft:</b>	CESSNA U206F	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Serious, 1 Minor
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

WHILE EN ROUTE AT 6000 FT, THE ACFT LOST POWER. THE PLT DESCENDED THROUGH A SCATTERED LAYER OF CLOUDS AND MADE A FORCED LANDING IN A GRASS COVERED FIELD 1 1/2 MILES NORTH OF BARNES MUNICIPAL AIRPORT, SHEARING OFF THE NOSE GEAR AND COMING TO REST INVERTED. WHEN IT BECAME OBVIOUS TO THE PLT THAT HE WOULD NOT MAKE IT TO THE AIRPORT, HE CHANGED HIS LANDING AREA AT A LOW ALTITUDE AND LACKED SUFFICIENT AIRSPEED TO COMPLETE THE LANDING FLARE. TEARDOWN OF THE ENGINE SHOWED A FAILED NO. 2 CONNECTING ROD BEARING, BOLTS, AND CONNECTING ROD. THE NO. 3 CONNECTING ROD OIL PORT WAS CLOGGED WITH A SEALANT SIMILAR TO THAT USED IN THE CHANGE OF THE OIL COOLER. EXCESS SEALANT WAS FOUND TO HAVE BEADED ON THE INSIDE SURFACE OF THE OIL COOLER.

## 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) - MECH FAILURE/MALF  
Phase of Operation: CRUISE - NORMAL

#### Findings

1. BLEED AIR SYSTEM - BLOCKED(PARTIAL)

2. (C) MAINTENANCE, INSTALLATION - IMPROPER - OTHER MAINTENANCE PERSONNEL
  3. FLUID, OIL - STARVATION
  4. ENGINE ASSEMBLY, CRANKSHAFT - DISTORTED
  5. ENGINE ASSEMBLY, CONNECTING ROD - FAILURE, TOTAL
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Occurrence #2: FORCED LANDING  
Phase of Operation: DESCENT - EMERGENCY

Findings

6. REMEDIAL ACTION - ATTEMPTED - PILOT IN COMMAND
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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

7. (F) TERRAIN CONDITION - RISING
8. (C) FLARE - MISJUDGED - PILOT IN COMMAND
9. LANDING GEAR, NOSE GEAR - FAILURE, TOTAL

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	60, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical-w/ waivers/lim	<b>Last FAA Medical Exam:</b>	September 10, 1985
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	843 hours (Total, all aircraft), 502 hours (Total, this make and model), 800 hours (Pilot In Command, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N8316Q
<b>Model/Series:</b>	U206F U206F	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Utility	<b>Serial Number:</b>	03177
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	August 1, 1986 Annual	<b>Certified Max Gross Wt.:</b>	3600 lbs
<b>Time Since Last Inspection:</b>	18 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	1534 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	IO-520-F-9
<b>Registered Owner:</b>	T. GORDON HUTCHINSON	<b>Rated Power:</b>	300 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Scattered / 2500 ft AGL	<b>Visibility</b>	5 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	10 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	210°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	26°C / 16°C
<b>Precipitation and Obscuration:</b>	N/A - None - Haze		
<b>Departure Point:</b>	JAFFREY , MA (AFN )	<b>Type of Flight Plan Filed:</b>	IFR
<b>Destination:</b>	LEHIGHTON , PA (22N )	<b>Type of Clearance:</b>	IFR
<b>Departure Time:</b>	00:00 Local	<b>Type of Airspace:</b>	Class E

## Airport Information

<b>Airport:</b>	BARNES BAF	<b>Runway Surface Type:</b>	Grass/turf
<b>Airport Elevation:</b>	0 ft msl	<b>Runway Surface Condition:</b>	Vegetation
<b>Runway Used:</b>	0	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	0 ft / 0 ft	<b>VFR Approach/Landing:</b>	Forced landing

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 Serious	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Serious, 1 Minor	<b>Latitude, Longitude:</b>	

## Administrative Information

**Investigator In Charge (IIC):** Hancock, Robert

**Additional Participating Persons:** BEN COLEMAN;  
CLIFFORD DANHAUER;  
ALAN YURMAN;  
TERRY SPATH;

**Original Publish Date:**

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=30205>

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