



# Aviation Investigation Final Report

<b>Location:</b>	GURLEY, Alabama	<b>Accident Number:</b>	ATL86LA030
<b>Date &amp; Time:</b>	November 24, 1985, 15:53 Local	<b>Registration:</b>	N5986S
<b>Aircraft:</b>	BEECH A23-19	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

ABOUT 5 MIN INTO THIRD FLT OF THE DAY, THE PLT REPORTED A LOSS OF POWER. DURING THE FORCED LDG ROLL OUT IN A PASTURE FIELD ACFT STRUCK A DITCH CAUSING SUBSTANTIAL DMG. EXAM OF ENGINE REVEALED FAILED EXH. VALVE. ENG HAD BEEN OPERATED 2341 HRS WITHOUT OVERHAUL.

## 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. (C) ENGINE ASSEMBLY, VALVE, INTAKE - WORN
2. (C) ENGINE ASSEMBLY, VALVE, INTAKE - FAILURE, TOTAL
3. (C) MAINTENANCE - DELAYED - COMPANY/OPERATOR MANAGEMENT

Occurrence #2: FORCED LANDING  
Phase of Operation: DESCENT - EMERGENCY

#### Findings

4. TERRAIN CONDITION - OPEN FIELD

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: LANDING - ROLL

Findings

5. TERRAIN CONDITION - DITCH

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	55, 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>	None	<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>	March 12, 1984
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	2746 hours (Total, all aircraft), 182 hours (Total, this make and model), 2466 hours (Pilot In Command, all aircraft), 6 hours (Last 90 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	BEECH	<b>Registration:</b>	N5986S
<b>Model/Series:</b>	A23-19 A23-19	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	MB81
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	June 1, 1985 Annual	<b>Certified Max Gross Wt.:</b>	2200 lbs
<b>Time Since Last Inspection:</b>	12 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	2342 Hrs	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-320-E2C
<b>Registered Owner:</b>	INDUSTRIAL ELECTRONIC SUPPLY	<b>Rated Power:</b>	150 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>	HSV ,629 ft msl	<b>Distance from Accident Site:</b>	20 Nautical Miles
<b>Observation Time:</b>	15:50 Local	<b>Direction from Accident Site:</b>	257°
<b>Lowest Cloud Condition:</b>	Scattered / 2500 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	0°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	15°C / 13°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	GURLEY , AL (WEBB)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	HUNTSVILLE , AL (3M5)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	15:48 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>		<b>Runway Surface Type:</b>	
<b>Airport Elevation:</b>	0 ft msl	<b>Runway Surface Condition:</b>	
<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 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	34.699924,-86.370643(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Stiner, Walter
<b>Additional Participating Persons:</b>	WILLIAM T LEDFORD; BROWNSBORO , AL BOB LEMASTERS; BIRMINGHAM , AL
<b>Original Publish Date:</b>	
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.ntsb.gov/Docket?ProjectID=7038">https://data.ntsb.gov/Docket?ProjectID=7038</a>

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