



# Aviation Investigation Final Report

<b>Location:</b>	BROOMFIELD, Colorado	<b>Accident Number:</b>	DEN90LA106
<b>Date &amp; Time:</b>	May 5, 1990, 19:31 Local	<b>Registration:</b>	N2208X
<b>Aircraft:</b>	CESSNA 337	<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

WHILE CONDUCTING A TEST FLT FOLLOWING OVERHAUL OF BOTH ENGINES THE REAR ENGINE FAILED WHILE ON DOWNWIND LEG. THE PLT SECURED THE ENGINE AND ATTEMPTED TO FEATHER THE PROP. THE PROP WOULD NOT FEATHER. THE PLT OVERFLEW AN AVAILABLE RUNWAY WHILE CONDUCTING A PRECAUTIONARY APPROACH AND OVERSHOT THE RUNWAY OF INTENDED LANDING. THE ACFT LANDED IN A RUNUP AREA ADJACENT TO THE RUNWAY IN A HIGH RATE OF DESCENT AND CAME TO REST IN A GRASS AREA BETWEEN THE RUNWAY AND TAXIWAY. THE ACFT SUSTAINED SUBSTANTIAL DAMAGE AND THE PLT AND PAX WERE NOT INJURED. THE ENGINE FAILED DUE TO THE OIL DILUTION LINE BEING CONNECTED TO THE PRESSURE PORT ON THE OIL PUMP INSTEAD OF THE VACUUM PORT, AND MAINTENANCE INSTRUCTIONS DO NOT PROVIDE GUIDANCE FOR THE INSTALLATION.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO PROPERLY EXECUTE A PRECAUTIONARY APPROACH FOLLOWING AN ENGINE FAILURE.

## Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF  
Phase of Operation: APPROACH - VFR PATTERN - DOWNWIND  
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Occurrence #2: FORCED LANDING

Phase of Operation: MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	35, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-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 3 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	January 30, 1989
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	485 hours (Total, all aircraft), 180 hours (Total, this make and model), 485 hours (Pilot In Command, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N2208X
<b>Model/Series:</b>	337 337	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	337-0108
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	May 1, 1990 Annual	<b>Certified Max Gross Wt.:</b>	4300 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	1749 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-360-CD
<b>Registered Owner:</b>	OUT 'N' ABOUT AVIATION	<b>Rated Power:</b>	210 Horsepower
<b>Operator:</b>	OUT AND ABOUT AVIATION	<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>	BJC ,5654 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	19:39 Local	<b>Direction from Accident Site:</b>	290°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	50 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	6 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	10°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	11°C / -1°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	(BJC )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	19:25 Local	<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	JEFFERSON COUNTY BJC	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	5654 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	29R	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	9000 ft / 100 ft	<b>VFR Approach/Landing:</b>	Traffic pattern

## 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>	39.93972,-105.060119(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Wiemeyer, Norman
<b>Additional Participating Persons:</b>	PETE LEE; DENVER , CO
<b>Original Publish Date:</b>	September 21, 1992
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=17927">https://data.nts.gov/Docket?ProjectID=17927</a>

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