



# Aviation Investigation Final Report

<b>Location:</b>	TEMECULA, California	<b>Accident Number:</b>	LAX87LA188
<b>Date &amp; Time:</b>	April 22, 1987, 13:30 Local	<b>Registration:</b>	N3835G
<b>Aircraft:</b>	CESSNA TU206B	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 Minor
<b>Flight Conducted Under:</b>	Part 91: General aviation		

## Analysis

DURING AN AERIAL SURVEY FLIGHT, WHILE ON FINAL APPROACH TO THE ARPT, THE ENGINE BEGAN RUNNING ROUGH THEN QUIT. THE PLT WAS UNABLE TO LAND THE ACFT AT THE ARPT, THEREFORE, A NEARBY DIRT ROAD WAS SELECTED. DURING THE LANDING ROLL THE ACFT COLLIDED WITH THE TERRAIN AND NOSED OVER. EXAMINATION OF THE ENGINE REVEALED THAT THE CRANKSHAFT HAD FAILED FROM HIGH CYCLE FATIGUE LOADING WHICH STARTED ON THE OUTSIDE OF ONE OF THE JOURNALS.

## 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: DESCENT - NORMAL

Findings  
1. (C) ENGINE ASSEMBLY, CRANKSHAFT - FATIGUE  
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Occurrence #2: FORCED LANDING  
Phase of Operation: DESCENT - EMERGENCY  
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Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER  
Phase of Operation: LANDING - ROLL

Findings

2. (F) TERRAIN CONDITION - ROUGH/UNEVEN

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Occurrence #4: NOSE OVER  
Phase of Operation: LANDING - ROLL

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	40, 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>	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--no waivers/lim.	<b>Last FAA Medical Exam:</b>	March 23, 1987
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	7366 hours (Total, all aircraft), 6978 hours (Total, this make and model), 7171 hours (Pilot In Command, all aircraft), 104 hours (Last 90 days, all aircraft), 46 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N3835G
<b>Model/Series:</b>	TU206B TU206B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	U206-0835
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	3
<b>Date/Type of Last Inspection:</b>	March 5, 1987 Annual	<b>Certified Max Gross Wt.:</b>	3600 lbs
<b>Time Since Last Inspection:</b>	30 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	6178 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	TSIO-520-C
<b>Registered Owner:</b>	AMERICAN AERIAL SERVICES INC.	<b>Rated Power:</b>	285 Horsepower
<b>Operator:</b>	AMERICAN AERIAL SERVICES	<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>	RAL ,816 ft msl	<b>Distance from Accident Site:</b>	15 Nautical Miles
<b>Observation Time:</b>	13:55 Local	<b>Direction from Accident Site:</b>	116°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	40 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	40°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	34°C / -1°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	UPLAND , CA (CCB )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	TEMECULA , CA (2L0 )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	12:30 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	TEMECULA 2LO	<b>Runway Surface Type:</b>	Dirt
<b>Airport Elevation:</b>	1015 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	12	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3023 ft / 60 ft	<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 Minor	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 Minor	<b>Latitude, Longitude:</b>	

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Eckrote, Debra
<b>Additional Participating Persons:</b>	KEN HIBLER; RIVERSIDE , CA
<b>Original Publish Date:</b>	May 27, 1988
<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=25575">https://data.ntsb.gov/Docket?ProjectID=25575</a>

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