



# Aviation Investigation Final Report

<b>Location:</b>	San Martin, California	<b>Accident Number:</b>	LAX04LA182
<b>Date &amp; Time:</b>	April 9, 2004, 13:19 Local	<b>Registration:</b>	N25645
<b>Aircraft:</b>	Piper PA-38-112	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The airplane collided with a fence during a forced landing due to loss of engine power in the takeoff initial climb. The airplane had not been flown for about 6 weeks. The owner and pilot completed a thorough preflight inspection of the airplane, with special attention to the fuel samples. The pilot was unable to remember when the airplane's fuel tanks were last filled, but opined that it was also nearly 6 weeks previous. The pilot reported the quantity of the fuel tanks as more than 1/2 full, and the fuel samples were clear of water and debris. The pilot operated the engine for about 20 minutes, and then performed before takeoff checks. The pilot stated that all engine and fuel system indications were normal. During initial climb after takeoff, the airplane's engine experienced a loss of power, resulting in a forced landing. During recovery of the airplane, fuel was found in one tank, the other tank had ruptured with evidence of fuel spillage on the ground underneath.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the loss of engine power for undetermined reasons.

### Findings

Occurrence #1: LOSS OF ENGINE POWER  
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

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Occurrence #2: FORCED LANDING

Phase of Operation: EMERGENCY LANDING AFTER TAKEOFF

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Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: EMERGENCY LANDING AFTER TAKEOFF

Findings

2. OBJECT - FENCE

## Factual Information

On April 9, 2004, about 1319 Pacific daylight time, a Piper PA-38-112, N25645, collided with the airport perimeter fence after a loss of engine power during departure from South County Airport of Santa Clara County, San Martin, California. The owner operated the airplane under the provisions of 14 CFR Part 91. The commercial pilot, the sole occupant, was not injured; the airplane sustained substantial damage. Visual meteorological conditions prevailed, and a flight plan had not been filed. The personal local flight was originating at the time of the accident.

In a written statement, the pilot reported that the airplane had not been flown for about 6 weeks. The owner and pilot completed a thorough preflight inspection of the airplane, with special attention to the fuel samples. The pilot was unable to remember when the airplane's fuel tanks were last filled, but opined that it was also nearly 6 weeks previous. The pilot reported the quantity of the fuel tanks as more than 1/2 full, and the fuel samples were clear of water and debris.

The pilot operated the engine for about 20 minutes, and then performed a before takeoff check. The pilot stated that all engine and fuel system indications were normal. During initial climb after takeoff, the airplane's engine experienced a loss of power, resulting in a forced landing. The pilot attempted to land the airplane in an open field and collided with the airport perimeter fence.

In a telephone interview with a National Transportation Safety Board investigator, an airport operations employee, and certified pilot, recalled witnessing the accident. The witness stated that he was performing maintenance on the airport perimeter when he heard sputtering from the airplane's engine. He watched the pilot perform a right turn and make a forced landing in a field. The witness added that during recovery while moving the airplane, he noted that one of the fuel tanks contained fuel. The other fuel tank was ruptured in the accident and he noted evidence of fuel leakage nearby.

The owner of the airplane stated in a telephone conversation that before he purchased the airplane, an annual inspection was performed on May 30, 2003. During the positioning flight from the purchase location in Indiana, to the owner's home base in California, in September 2003, the owner requested additional maintenance after experiencing less than full power during flight. An engine inspection found deterioration in the muffler and a damaged magneto; both were replaced. The pilot operated the airplane an additional 25 hours between September 2003, and the day of the accident. No further maintenance was performed.

## Pilot Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	55, 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>	Airplane single-engine	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical-w/ waivers/lim	<b>Last FAA Medical Exam:</b>	August 29, 2003
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	July 5, 2003
<b>Flight Time:</b>	2200 hours (Total, all aircraft), 200 hours (Total, this make and model), 2200 hours (Pilot In Command, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Piper	<b>Registration:</b>	N25645
<b>Model/Series:</b>	PA-38-112	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	38-81A0034
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	May 30, 2003 Annual	<b>Certified Max Gross Wt.:</b>	1670 lbs
<b>Time Since Last Inspection:</b>	5 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4800 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-235
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	112 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	RHV,133 ft msl	<b>Distance from Accident Site:</b>	18 Nautical Miles
<b>Observation Time:</b>	12:47 Local	<b>Direction from Accident Site:</b>	330°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	6 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	4 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	230°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.02 inches Hg	<b>Temperature/Dew Point:</b>	22°C / 10°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	San Martin, CA (E16 )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	San Martin, CA (E16 )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	13:19 Local	<b>Type of Airspace:</b>	Class E

## Airport Information

<b>Airport:</b>	So County Airport/Santa Clara E16	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	281 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	32	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3100 ft / 75 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>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	37.081665,-121.596946

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Petterson, George
<b>Additional Participating Persons:</b>	Wilbert J Robinson, Jr.; Federal Aviation Administration; San Jose, CA
<b>Original Publish Date:</b>	July 7, 2005
<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=59037">https://data.nts.gov/Docket?ProjectID=59037</a>

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