



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	Flippin, AR	<b>Accident Number:</b>	CEN11LA441
<b>Date &amp; Time:</b>	07/01/2011, 1100 CDT	<b>Registration:</b>	N56417
<b>Aircraft:</b>	PIPER PA-28-180	<b>Injuries:</b>	1 Serious
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

## Analysis

While in cruise flight the pilot noted a decrease in engine rpm. He began to troubleshoot the problem and reversed course to head toward more favorable terrain for a forced landing. After completing the turn, the engine seized, and the pilot performed a forced landing to a pasture. During the landing roll, the right wing impacted a bale of hay, resulting in substantial damage. An examination of the engine revealed that the loss of engine power and resultant seizure was due to a loss of engine oil. Further examination revealed that the bolts on the vacuum pump were loose and the engine oil was exiting at that location. An examination of the airframe and remaining systems revealed no anomalies.

## Flight Events

Enroute-cruise - Loss of engine power (total)  
Landing-landing roll - Collision with terr/obj (non-CFIT)

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:  
The loss of engine power due to improper maintenance and resultant oil starvation.

## Findings

Aircraft-Fluids/misc hardware-Fluids-Oil-Related operating info - C  
Aircraft-Aircraft power plant-Engine (reciprocating)-Recip eng rear section-Incorrect service/maintenance - C  
Aircraft-Aircraft systems-Vacuum system-(general)-Incorrect service/maintenance - C  
Environmental issues-Physical environment-Object/animal/substance-(general)-Contributed to outcome

## Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	60
<b>Airplane Rating(s):</b>	Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	820 hours (Total, all aircraft), 317 hours (Total, this make and model), 51 hours (Last 90 days, all aircraft), 18 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Manufacturer:</b>	PIPER	<b>Registration:</b>	N56417
<b>Model/Series:</b>	PA-28-180	<b>Engines:</b>	1 Reciprocating
<b>Operator:</b>	On file	<b>Engine Manufacturer:</b>	LYCOMING
<b>Air Carrier Operating Certificate:</b>	None	<b>Engine Model/Series:</b>	O&VO-360 SER
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

## Meteorological Information and Flight Plan

<b>Observation Facility, Elevation:</b>	KBPK, 928 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Lowest Ceiling:</b>	None
<b>Condition of Light:</b>	Day	<b>Wind Speed/Gusts, Direction:</b>	6 knots, 200°
<b>Temperature:</b>	30° C / 22° C	<b>Visibility</b>	10 Miles
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Mountain Home, AR (KBPK)	<b>Destination:</b>	Marshall, AR (K4A5)

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Serious	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Jennifer Rodi	<b>Adopted Date:</b>	11/22/2011
<b>Investigation Docket:</b>	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=80965">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=80965</a>		

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