



National Transportation Safety Board Aviation Accident Factual Report

Location:	POINT LOOKOUT, MO	Accident Number:	CHI98LA234
Date & Time:	07/01/1998, 1330 CDT	Registration:	N5643L
Aircraft:	American Aviation Corp. (AAC) AA-1TW	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

On July 1, 1998, at 1330 central daylight time, an American Yankee AA1-1TW, N5643L, impacted the terrain following a loss of directional control during a landing roll on runway 29 (3,539' x 100') at the Clark Airport, Point Lookout, Missouri. The ATP pilot and passenger were not injured and the airplane sustained substantial damage. The airplane was being operated as a personal flight under 14 CFR part 91 when the accident occurred. The flight originated Cape Girardeau, Missouri, at 1145. Visual meteorological conditions prevailed and no flight plan was filed.

The pilot stated that during the landing roll, following a 3-point landing, the tailwheel began to vibrate. He reported the vibration increased and the airplane made a "sharp yaw to the left." After about 30 degrees of turn, the right landing gear attach bracket bolts sheared and the right wing contacted the runway. The airplane then skidded to the right side of the runway and exited the runway tail first.

Inspection of the runway by the Clark Airport Operations Supervisor revealed tail wheel skid marks were present on the runway for a length in excess of 150 yards.

Inspection of the airplane by an Inspector from the Kansas City Federal Aviation Administration Flight Standards District Office revealed the right arm of the tailwheel had failed approximately 1" from the center of the arm. Corrosion was present on the factured surface.

Pilot Information

Certificate:	Airline Transport	Age:	60, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane Single-engine	Toxicology Performed:	
Medical Certification:	Class 1 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	12/11/1997
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	26445 hours (Total, all aircraft), 153 hours (Total, this make and model), 25112 hours (Pilot In Command, all aircraft), 206 hours (Last 90 days, all aircraft), 54 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	American Aviation Corp. (AAC)	Registration:	N5643L
Model/Series:	AA-1TW AA-1TW	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	43
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	04/01/1998, Annual	Certified Max Gross Wt.:	1500 lbs
Time Since Last Inspection:	28 Hours	Engines:	1 Reciprocating
Airframe Total Time:	2236 Hours	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-235-C2C
Registered Owner:	JAMES N. MAHLE	Rated Power:	108 hp
Operator:	JAMES N. MAHLE	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	SGF, 938 ft msl	Distance from Accident Site:	45 Nautical Miles
Observation Time:	1454 CDT	Direction from Accident Site:	350°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Calm /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	27° C / 21° C
Precipitation and Obscuration:			
Departure Point:	CAPE GIRARDEAU, MO (CGI)	Type of Flight Plan Filed:	None
Destination:	POINT LOOKOUT, MO (PLK)	Type of Clearance:	None
Departure Time:	1145 CDT	Type of Airspace:	Class D

Airport Information

Airport:	CLARK AIRPORT (PLK)	Runway Surface Type:	Asphalt
Airport Elevation:	938 ft	Runway Surface Condition:	Dry
Runway Used:	29	IFR Approach:	None
Runway Length/Width:	3539 ft / 100 ft	VFR Approach/Landing:	Full Stop

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	PAMELA S SULLIVAN
Additional Participating Persons:	STEVE DAVIS; KANSAS CITY, MO
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .