Printed on: 2/14/2009 10:43:03 AM

National Transportation Safety Board		NTSB ID:	CHI02LA179)	Aircraft Registration Number: N877TC			
FACTUAL REPORT		Occurrence	ce Date: 06/30	0/2002	Most Critical Injury: None			
AVIATION		Occurrence	ce Type: Accid	lent	Investigated By: NTSB			
Location/Time								
Nearest City/Place	State	Zij	o Code	Local Time	Time Zone			
Omaha	NE		3144	1230	CDT			
Airport Proximity: Off Airport/Airstrip	Distanc	ce From La	anding Facility:	4.3				
Aircraft Information Summary								
Aircraft Manufacturer			Model/Series				Type of Aircraft	
Waltz	RV-8			Airplane				
Revenue Sightseeing Flight: No	Air Medical Transport Flight: No							

Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:

Narrative

On June 30, 2002, at 1230 central daylight time, an amateur-built Waltz RV-8, N877TC, owned and piloted by an airline transport pilot, sustained substantial damage during a forced landing to a soybean field near Omaha, Nebraska. Visual meteorological conditions prevailed at the time of the accident. The personal flight was operating under the provisions of 14 CFR Part 91 without a flight plan. The pilot and his passenger reported no injuries. The flight originated at Creve Couer Airport, St. Louis, Missouri, at 0950 and had the intended destination of Millard Airport (MLE), Omaha, Nebraska.

The pilot reported the airplane experienced a propeller overspeed condition during a descent, with the propeller speed increasing to 3,170 revolutions per minute (rpm). The oil pressure subsequently began to fluctuate between 17 and 26 pounds per square inch (psi). The pilot noted he monitored engine indications for approximately two minutes and did not observe any changes in engine condition. The pilot stated that "loud banging noises began emanating from the engine area" and that other pilot's could hear the sound over the airplane's radio. The pilot reported that the engine lost power about 20 seconds after the "banging" noise began. The pilot stated he picked a field for an emergency landing into the wind. The pilot noted the gear collapsed on touchdown and the airplane slid approximately 150 feet before coming to a stop.

A Federal Aviation Administration airworthiness inspector conducted the on-scene examination of the engine. The examination revealed the engine case was damaged near the number four engine cylinder. A subsequent teardown examination of the engine revealed the number four connecting rod cap and the connecting rod cap bolts had fractured. A portion of a connecting rod bolt was found impacted into the bottom of another piston.

The number four connecting rod bolts and connecting rod cap were sent to the NTSB investigator-in-charge (IIC) for further examination. The IIC submitted the artifacts to Packer Engineering Inc., Naperville, Illinois, for a materials laboratory examination. The examination revealed that the nut on one of the connecting rod cap bolts was partially engaged. The connecting rod cap showed evidence of fatigue cracking on both the inner and outer edges of the fracture. Fracture features of both connecting rod cap bolts indicated the bolts had separated due to overload.

The materials laboratory factual report is included with the docket material associated with this accident report.

National Transportation Safety Board
FACTUAL REPORT

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Occurrence Date: 06/30/2002

AVIATION	ence Type:	Accident]							
Landing Facility/Approach Information					•						
Airport Name	Ai	irport ID:	Airport Elevation	Rur	nway Used	Runwa	y Length	n Rur	nway Width		
Millard Airport	l v	ILE	1220 Ft. MSL								
Runway Surface Type:				·							
Runway Surface Condition:											
Approach/Arrival Flown: NONE											
VFR Approach/Landing: Forced Landing											
Aircraft Information											
Aircraft Manufacturer Waltz		Model/ RV-8	Series				Serial N 80775	Number 5			
Airworthiness Certificate(s): Experimental (Special)											
Landing Gear Type: Tailwheel											
Amateur Built Acft? Yes Number of Seats: 2	2	Certifie	d Max Gross Wt.		1800 LBS Number			r of Engine	s: 1		
Engine Type: Reciprocating	Engine Ma Lycomino	nufacturer:	Model/Series: IO-360-A1B6			Rated Power: 200 HP					
- Aircraft Inspection Information											
Type of Last Inspection	ate of Las	t Inspection	Time Si	ince Last Inspe		Airframe Total Time					
Annual		04/2002				urs	222 Hours				
- Emergency Locator Transmitter (ELT) Information											
ELT Installed?/Type Yes /	E	ELT Operated? Yes ELT Aided in Locating Accident Site?						No			
Owner/Operator Information											
Registered Aircraft Owner		Street Address 6610 Point Clear Dr.									
Joe A. Waltz		City							Zip Code		
		Houston TX 77069 Street Address									
Operator of Aircraft		6610 Point Clear Dr.									
Joe A. Waltz		City Houston							Zip Code 77069		
Operator Does Business As:	Houston TX 770 Operator Designator Code:										
- Type of U.S. Certificate(s) Held: None											
Air Carrier Operating Certificate(s):											
Operating Certificate:			Operator Certific	rate:							
Regulation Flight Conducted Under: Part 91: Genera	l Aviatio	n	Operator Cortille								
Type of Flight Operation Conducted: Personal											
1	FACTUA	AL REPO	RT - AVIATION						Page 2		

National Transportation Safety Board
FACTUAL REPORT
AVIATION

NTSB ID: CHI02LA179

Occurrence Date: 06/30/2002

AVIATION				Occurrence Type: Accident											
First Pilo	t Information														
Name						City				Sta	te [Date of Birth	Age		
On File								On File			File	On File	50		
Sex: M Seat Occupied: Front Occupational Pilot? Unknown									Се	rtificat	e Numb	er: On File	•		
Certificate(s): Airline Transport; Flight Instructor; Flight Engineer															
Airplane Rating(s): Multi-engine Land; Single-engine Land															
Rotorcraft/Glider/LTA: None															
Instrument	Rating(s): Airpl	ane													
Instructor Rating(s): Airplane Multi-engine; Airplane Single-engine; Instrument Airplane															
Current Bie	nnial Flight Revie	ew? 06/2002	2												
Medical Cert.: Class 1 Medical Cert. Status: Valid Medicalw/ waix						ivers/lir	m.		Date of L	ast Me	edical Ex	xam: 06/2002	06/2002		
		<u>'</u>													
- Flight Tim	ne Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Mult-Engine	Night	t Instrument Actual Simulat		ument Simulated		Rotorcraft	Glider	Lighter Than Air		
Total Time		13000	222	1000	12000	6	000	2000	10	00					
Pilot In Cor	mmand(PIC)	9000	222	900	8100	4	500	1500		50					
Instructor		4000		100	2000		200	200		50					
Instruction	Received														
Last 90 Da	ys	125	61	61	64		9	10							
Last 30 Da	ys	32	15	15	27		4	4							
Last 24 Ho	ours	10	10	10											
Seatbelt Us	sed? Yes	Shou	ılder Harness	Used? Yes		٦	Toxicol	logy Perfor	med? No		Se	cond Pilot? N	lo		
Flight Pla	n/Itinerary														
Type of Flig	ght Plan Filed: No	one													
Departure I	Point						State	Airp	ort Identifi	er	Depar	ture Time	Time Zone		
St. Louis							MO 1HC				0950		CDT		
Destination	1						State	Airc	rport Identifier						
Omaha						I	NE MLE								
Type of Cle	earance: None					-									
Type of Air	space: Class	G													
Weather Information															
Source of	Wx Information:														
	No record of briefing														
				FACTUAL	REPORT.	Δ V/I Λ	TION	ſ					Page 3		

National Transportation Safety Board

FACTUAL REPORT

NTSB ID: CHI02LA179

Occurrence Date: 06/30/2002

AVIATION				Occurrence Type: Accident										
Weather	Information		<u>'</u>											
WOF ID	Observation Time	Time Zone	WOF EI	evation	WOF Di	stance From	Accio	dent Site		Direction F	rom Accident	Site		
OFF	1255	CDT	104	8 Ft. MSL						57 Deg. Mag.				
Sky/Lowes	t Cloud Condition: Few			Ę	5500 Ft. AGL			of Ligh	nt: Day					
Lowest Ce	iling:			Ft. AGL	Visibi	lity:	7	SM	Alti	meter:	30.01	"Hg		
Temperatu	ıre: 34 °C [Dew Point:	20	°C Weat	her Condi	tions at Accid	dent S	ite: Visual (Cond	litions				
Wind Direc	etion: 190	Wind Spee	d: 7	<u> </u>	Wind	l Gusts:								
Visibility (R	tVR): Ft.	Visibility (R	:VV)	SM										
Precip and	/or Obscuration:													
Accident	Information													
			Τ											
Aircraft Dar	mage: Substantial		Aircraf	Aircraft Fire: None					Aircraft Explosion None					
- Injury Sur	mmary Matrix	Fatal Se	erious	Minor	None	TOTAL								
First Pil	lot				1	1								
Second	l Pilot													
Studen	t Pilot													
Flight Ir	nstructor													
Check I	Pilot													
Flight E	ingineer													
Cabin A	Attendants													
Other C	Crew													
Passen	gers				1	1								
- TOTAL A	BOARD -				2	2								
Other G	Ground													
- GRAND	TOTAL -				2	2								

National Transportation Safety Board

FACTUAL REPORT AVIATION

NTSB ID: CHI02LA179

Occurrence Date: 06/30/2002

Occurrence Type: Accident

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Investigator-In-Charge (IIC)

Andrew T. Fox

Additional Persons Participating in This Accident/Incident Investigation:

Bob Johnson FAA- Lincoln FSDO Lincoln, NE